APPLICABLE CODES, STANDARDS AND SPECIFICATIONS:

THE FOLLOWING CODES SHALL BE DEEMED MANDATORY FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. DESIGN AND CONSTRUCTION SHALL BE BASED ON, BUT NOT LIMITED TO THE FOLLOWING STANDARDS AND SPECIFICATIONS (LATEST EDITIONS):

INTERNATIONAL BUILDING CODE (IBC) 2018 EDITION

AMERICAN CONCRETE INSTITUTE (ACI)

PRESTRESSED CONCRETE INSTITUTE (PCI)

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

AMERICAN IRON AND STEEL INSTITUTE (AISI)

STRUCTURAL MEMBERS AMERICAN WELDING SOCIETY (AWS)

AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)

RECOMMENDED DESIGN PRACTICES (MANUAL)

OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA)

ALL SPECIFICATIONS FOR ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL AND MECHANICAL WORK.

DESIGN CRITERIA:

CONTRACTOR SHALL VERIFY THE CORRECTNESS OF ALL DIMENSIONS PRIOR TO FABRICATION AND CONSTRUCTION.

ROOF: DEAD LOAD (AS CALCULATED)
20 PSF MIN. LIVE LOAD
30 PSF SNOW LOAD
15 PSF MECHANICAL & ELECTRICAL LIVE LOAD

WIND LOAD: 115 MPH (IBC, 3 SECOND GUST) RISK CATEGORY II, AT 33 FT, EXPOSURE "C"

ADDITIONAL WIND LOAD CRITERIA AS PER FM GLOBAL:
WALL PANELS FOR THE KELLY FILTER BUILDING DESIGNED WITH WIND PRESSURE RATINGS ADEQUATE FOR THE MAXIMUM INWARD AND OUTWARD WIND LOAD DESIGN PRESSURES OF 35 PSF INWARD AND 35 PSF OUTWARD. INCREASED DESIGN PRESSURES IN THE 5 FT. WIDE ZONE 5 TO A WIND LOAD DESIGN PRESSURE OF 45 PSF OUTWARD. THE ZONE 5 INWARD DESIGN PRESSURE IS 35 PSF.

SEISMIC LOAD: AS PER IBC SITE SPECIFIC DATA FOR 0.20 SECOND SPECTRAL RESPONSE ACCELERATION.

ALLOWABLE SANNEX FILTER BEARING PRESSURE = 3500 PSF (STATIC LOADING)

CAST-IN-PLACE CONCRETE:

1. MINIMUM ULTIMATE COMPRESSIVE STRENGTH FOR CAST-IN-PLACE CONCRETE SHALL BE 4000 PSI AT 28 DAYS (UNLESS OTHERWISE NOTED). ALL CONCRETE SHALL BE AIR ENTRAINED TO AN AIR CONTENT OF 6% (±1%) AS MEASURED BY THE VOLUMETRIC METHOD.

2. ALL REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60 (FY = 60,000 PSI).

3. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND PROVIDED IN SHEETS RATHER THAN ROLLS.

4. UNLESS OTHERWISE NOTED, THE MINIMUM LAP LENGTH OF REINFORCING SHALL BE AS REQUIRED BY ACI. IF THE TYPE OF SPLICE IS UNKNOWN, ASSUME CLASS B SPLICES. HORIZONTAL SPLICES IN WALLS SHALL DETAILED USING AN ALPHA FACTOR OF 1.3 AS SPECIFIED IN 12.2.4.

5. NO WELDED OR MECHANICAL SPLICES WILL BE ALLOWED, UNLESS SPECIFICALLY INDICATED.

6. SPLICING OF MAIN BEAM REINFORCING BARS PERMITTED ONLY OVER SUPPORTS FOR BOTTOM BARS OR AT MID-SPAN FOR TOP BARS, UNLESS OTHERWISE NOTED.

7. TOP SLAB REINFORCING SHALL BE SPLICED AT MID-SPAN BETWEEN SUPPORTS. BOTTOM REINFORCING SHALL BE SPLICED WITHIN 1/5 OF SPAN EITHER SIDE OF SUPPORT.

8. HEATING OF REINFORCING OR ANCHOR BOLTS WILL NOT BE ALLOWED.

9. REINFORCING BARS ADJACENT TO THE FACE OF CONCRETE SHALL HAVE THE FOLLOWING CONCRETE COVER (REINFORCING BAR COVER SHALL FOLLOW THE SLOPING SURFACES OF THE CONCRETE) UNLESS OTHERWISE INDICATED ON THE CONTRACT DRAWINGS.

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH_____ 3"

CONCRETE SURFACES EXPOSED TO EARTH OR WEATHER_____ 2"

TOP BARS OF CONCRETE MATS _____ 3"

CONCRETE ELEVATED SLABS NOT PERMANENTLY EXPOSED TO WEATHER,TOP AND BOTTOM BARS FOR FORMED SLABS (#11 BAR AND SMALLER)_____ 3/4"

ALL OTHER CONDITIONS _____ 1 1/2"

10. GROUT UNDER COLUMN BASE PLATES SHALL BE GENERAL CONSTRUCTION GROUT AS MANUFACTURED BY MASTER BUILDERS OR APPROVED EQUAL.

11. CHAMPER ALL EXPOSED EDGES OF CONCRETE 1/2", TYPICAL.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 AND A36.

2. ALL TUBE STEEL SHALL CONFORM TO ASTM A500, GRADE B.

3. ALL PIPE STEEL SHALL CONFORM TO ASTM A53, GRADE B.

4. ALL CONNECTION BOLTS SHALL CONFORM TO ASTM A325 UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE FURNISHED WITH WASHERS AND NUTS.

5. ALL WELDS AND WELDING PROCEDURES SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PROVISIONS OF AISC AND AWS WELDING PROCEDURES AND CODES AS OUTLINED IN THE SPECIFICATION. SPECIAL ATTENTION SHALL BE GIVEN TO PROPER HEAT TREATMENT REQUIREMENTS. ALL WELDS SHALL BE MADE WITH E-70XX ELECTRODES UNLESS OTHERWISE SPECIFIED.

6. WELDING ELECTRODES SHALL BE OF E-70 SERIES

7. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A307 OR A36 UNLESS OTHERWISE NOTED.

8. CONNECTIONS: UNLESS OTHERWISE NOTED OR CALLED FOR ON DRAWINGS:

ALL CONNECTIONS TO NEW STEEL SHALL BE SHOP WELDED AND FIELD BOLTED.

BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS SHALL BE FRAMED, BEARING TYPE WITH A MINIMUM OF TWO 3/4" DIAMETER BOLTS AND THREADS IN SHEAR PLANE.

BOLTED BEAM CONNECTIONS SHALL BE SELECTED FROM THE AISC MANUAL OF STEEL CONSTRUCTION TO SUPPORT A MINIMUM OF ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY OR ONE-FOURTH THE MAXIMUM WEB SHEAR (WHICHEVER IS GREATER).

SHOP WELDED FRAMED CONNECTIONS SHALL BE AS PER TABLE VI OF AISC MANUAL DETAILED TO OBTAIN EQUIVALENT STRENGTH OF BOLTED CONNECTIONS.

BRACING CONNECTIONS SHALL BE BEARING TYPE WITH 3/4" DIA. BOLTS AND THREADS IN SHEAR PLANE. MINIMUM NUMBER OF BOLTS SHALL BE TWO.

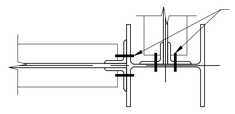
UNLESS BEAM REACTIONS ARE INDICATED ON PLANS, EACH BEAM SHALL BE CONNECTED WITH THE FOLLOWING MINIMUM NUMBER OF BOLTS:

NOMINAL BEAM SIZE	TOTAL NO. OF BOLTS	NUMBER OF ROWS
W4, W5, W6	2	1
W8, W10, W12	4	2
W14, W16	6	3
W18, W21	8	4
W24, W27	10	5
W30	12	6
W33	14	7
W36	16	8

HOLES FOR FIELD CONNECTIONS SHALL BE 1/16" LARGER IN DIAMETER THAN THE BOLT. HOLES IN STRUCTURAL STEEL TO MATCH EQUIPMENT HOLE LOCATIONS SHALL BE 3/16" LARGER IN DIAMETER THAN CONNECTING BOLTS. HOLES FOR ANCHOR BOLTS IN COLUMN BASE PLATES SHALL BE 5/16" LARGER IN DIAMETER THAN THE BOLT FOR 3/4" AND 7/8" BOLTS AND 1/2" LARGER IN DIAMETER THAN THE BOLT FOR BOLTS 1" AND LARGER.

WHEN SHOP BOLTING OF BEAM CONNECTION IS BEING DONE, THE SHOP BOLTS AND THE FIELD BOLTS SHALL BE STAGGERED TO FACILITATE ERECTION.

BOLT SPACING OF CONCURRENT CONNECTIONS AT COLUMN FLANGE AND WEB AS SHOWN BELOW SHALL BE STAGGERED AS REQUIRED. ** **

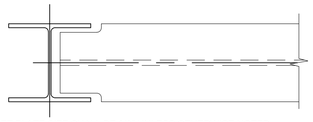


9. ALL WORKMANSHIP FOR STRUCTURAL STEEL SHALL CONFORM TO LATEST AISC SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

10. STEEL SURFACE PREPARATION, PAINTING AND FIELD TOUCH- UP SHALL BE IN ACCORDANCE WITH PAINT SPECIFICATIONS. BEAM FRAMING SHOWN ON PLANE SHALL HAVE THE WEB VERTICAL UNLESS OTHERWISE SHOWN.

11. ALL WIDE FLANGE SHAPES USED WITH WEB ORIENTED HORIZONTAL SHALL HAVE A 1/2" DIAMETER DRAINAGE HOLE SHOP DRILLED IN CENTER OF WEB AT CENTER OF SPAN.

12. FOR BEAMS FRAMING INTO THE WEB OF COLUMNS WITH BEAM FLANGES WIDER THAN THE DEPTH CLEARANCE OF THE COLUMN, BEAM FLANGES SHALL BE COPED TO FIT AS SHOWN BELOW: ** **



13. MINIMUM GUSSET PLATE SIZE SHALL BE 3/8" UNLESS OTHERWISE NOTED.

14. FOR TYPICAL DETAILS WHICH APPLY TO MORE THAN ONE LOCATION, WELD SIZES SHOWN ON DRAWINGS ARE MINIMUM DESIGN SIZES AND SHALL BE INCREASED ACCORDING TO ADJOINING STEEL THICKNESS TO MEET THE MINIMUM WELD SIZES PER AISC SPECIFICATIONS.

15. DIMENSIONS: TO CENTERLINES OF COLUMNS AND BEAMS, TOP SURFACES OF BEAMS AND TUBES AND BACKS OF CHANNELS AND ANGLES UNLESS SHOWN OTHERWISE.

16. ELEVATIONS: REFER TO TOP SURFACE OR FLANGE OF MEMBER UNLESS SHOWN OTHERWISE.

17. ALL ASSEMBLIES WEIGHING OVER TEN TONS SHALL HAVE THEIR LIFTING WEIGHTS SHOWN ON THE DRAWINGS AND SHOP PAINTED ON THE ASSEMBLY.

18. ALL COPES SHALL HAVE A 1/2" MINIMUM RADIUS.

ANNEX FILTER STORAGE BUILDING REFERENCES AND DESIGN CRITERIA:

1. FIRE SUPRESSION SYSTEM SHALL BE DESIGNED AND INSTALLED BY A LICENSED CONTRACTOR IN THE STATE OF IDAHO AND SHALL COMPLY WITH ALL OF FM GLOBAL AND NFPA DESIGN REQUIREMENTS AND STANDARDS.

2. NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.

3. NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE

4. ANALYSIS RESULTS FOR ANNEX FILTER STORAGE BUILDING:
THE ANALYSIS OF THE ANNEX FILTER BULDING AND CONTAINERS TO BE STORED IN THE BUILDING ARE NO FLAMMABLE LIQUIDS.

5. OUTPUT AND DURATION DETERMINATION:
FIRE SPRINKLERS OUTPUT 15 TO 40 GPM BASED UPON THE PRESSURE REQUIREMENTS. AN OUTPUT OF 0.2GPM/SQ FT WAS SELECTED FOR A SPRINKLER SPACING OF HEADS SPACED 10'-0" ON CENTERS. A DURATION OF 10 MINUTES MINIMUM IS SPECIFIED BY NFPA 13.

SPECIAL INSPECTIONS.

SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AGENCY QUALIFIED TO PERFORM SUCH WORK IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE LATEST EDITION. SPECIFIC SPECIAL INSPECTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO ALL STEEL ERECTION AND WELDED CONNECTIONS. SPECIFIC INSPECTION REQUIREMENTS ARE AS FOLLOWS.

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION (REF. IBC-2009 TABLE 1704.3)

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
CONFIRMATION OF HIGH STRENGTH BOLTS, NUTS, AND WASHERS:				
IDENTIFICATION MARKINGS CONFORM TO ASTM	—	X	AISC 360 SECTION A3.3	
MANUFACTURERS CERTIFICATE OF COMPLIANCE	—	X	—	
INSPECTION OF HIGH STRENGTH BOLTING:				
SNUG TIGHT JOINTS	—	X		
PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN OF THE NUT WITH MATCHMARKING, TWIST-OFF BOLT, OR DIRECT TENSION INDICTOR METHODS.	—	X	AISC 360 SECTION M2.5	1704.3.3
PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN OF THE NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH INSTALLATION METHODS.	X	—		
CONFIRMATION OF ASTM MATERIAL STANDARDS	—	—	ASTM A6 OR ASTM A568	1708.4
INSPECTION OF WELDING STRUCTURAL STEEL				
AWS VERIFICATION OF FILLER WELD MATERIAL	—	—	AISC, ASD, SECTION A3.6	—
SINGLE-PASS FILLET WELDS > 5/16"	X	—	AWS D1.1	1704.3.1
SINGLE-PASS FILLET WELDS <= 5/16"	—	X	AWS D1.1	1704.3.1
FLOOR AND DECK WELDS	—	X	AWS D1.1	1704.3.1
INSPECTION STRUCTURAL STEEL FRAME JOINTS				
BRACING AND STIFFENING	—	—	—	1704.3.2
MEMBER LOCATIONS	—	X	—	1704.3.2
APPLICATION OF JOINT DETAILS @ CONN.	—	X	—	1704.3.2

ANNEX FILTER BUILDING FM GLOBAL REQUIREMENTS AND RECOMMENDATIONS:

1. PROVIDE AN AUTOMATIC FIRE SPRINKLER SYSTEM IN THE ANNEX FILTER STORAGE WAREHOUSE DESIGNED IN ACCORDANCE WITH DATA FM GLOBAL SHEET 7-29, IGNITABLE LIQUID STORAGE IN PORTABLE CONTAINERS. THE LIQUID MEETS THE CRITERIA TO BE CLASSIFIED AS A VERY HIGH FLASHPOINT LIQUID, USE A MINIMUM CEILING SPRINKLER DESIGN OF NOT LESS THAN 7 PSI USING 25 K8.0 STANDARD COVERAGE SPIRINKLERS.

2. SUBMIT ONE SET OF WORKING DRAWINGS, SPRINKLER SYSTEM HYDRAULIC CALCULATIONS, EARTHQUAKE BRACING CALCULATIONS, MATERIAL DATA SHEETS AND SPECIFICATIONS TO FM GLOBAL FOR REVIEW AND ACCEPTANCE PRIOR TO THE START OF ANY SPRINKLER SYSTEM INSTALLATION. AT LEAST TWO WEEKS SHOULD BE ALLOWED FOR REVIEW IN THE CONSTRUCTION PLANNING.

3. INSTALL THE FIRE ALARM SYSTEM IN THE ANNEX FILTER STORAGE WAREHOUSE IN ACCORDANCE WITH FM GLOBAL PROPERTY LOSS PREVENTION DATA SHEET 5-40, FIRE ALARM SYSTEMS AND 5-48, AUTOMATIC FIRE DETECTION. THE FIRE ALARM SYSTEM AND RELATED EQUIPMENT, INCLUDING, BUT NOT LIMITED TO, ALL DETECTORS, WATERFLOW ALARMS, AND TAMPER SWITCHES SHOULD BE FM APPROVED.

RECOMMENDATIONS TO REDUCE HAZARDS DURING INSTALLATION:

4. STRICTLY MANAGE AND TAKE PROPER PRECAUTIONS FOR HOT WORK: O AVOID HOT WORK OF ANY KIND WHEN POSSIBLE.

5. IF THERE IS A PRACTICAL AND SAFER WAY TO DO THE JOB WITHOUT HOT WORK, USE THE ALTERNATIVE METHOD.

6. IF HOT WORK IS UNAVOIDABLE, USE THE FM GLOBAL HOT WORK PERMIT SYSTEM. USING THE HOT WORK PERMIT SYSTEM AND TAKING THE PRECAUTIONS IT REQUIRES PREVENTS HOT WORK FIRES.

7. USE CAUTION WHERE HOT WORK IS CONDUCTED WITHIN OR NEAR WALL, FLOOR/CEILING, OR ROOF/CEILING SPACES WHERE COMBUSTIBLES ARE PRESENT. FOR ADDITIONAL INFORMATION, SEE DS 1-0, SAFEGUARDS DURING CONSTRUCTION, ALTERATION AND DEMOLITION.

8. NOTIFY THE FM GLOBAL CUSTOMER SERVICE DESK WHEN AUTOMATIC FIRE PROTECTION IS SHUT OFF, REGARDLESS OF THE DURATION. USE THE FM GLOBAL RED TAG PERMIT SYSTEM TO MANAGE ANY SHUTDOWNS OF AUTOMATIC FIRE PROTECTION. IT WILL PROVIDE A QUICK REVIEW OF PRECAUTIONS NEEDED DURING FIRE PROTECTION IMPAIRMENTS AND WILL ALSO PROVIDE A FOLLOW-UP TO ENSURE THAT FULL PROTECTION IS RESTORED AS SOON AS POSSIBLE.

9. HAVE A MINIMUM OF TWO 10 LB. ABC FIRE EXTINGUISHERS AVAILABLE ON THE ROOF DURING ROOF CONSTRUCTION AND REPAIRS.

10. IT IS ESSENTIAL THAT THOROUGH SUPERVISION BY THE BUILDING OWNER'S QUALIFIED REPRESENTATIVE IS PROVIDED DURING ALL ROOF CONSTRUCTION TO ENSURE QUALITY OF WORKMANSHIP AND ADHERENCE TO FM APPROVAL STANDARDS AND PROJECT SPECIFICATIONS.

11. AVOID CUTTING AND WELDING ON SPRINKLER PIPING. WHEN SYSTEM FABRICATION REQUIRES DRILLING, CUTTING, OR BURNING OF HOLES IN THE SPRINKLER PIPE AND/OR WELDING OF OUTLETS TO PIPE, REMOVE PIPING TO A SAFE LOCATION. TAKE EXTREME CARE TO ENSURE THAT COUPONS, SLAG AND OTHER DEBRIS ARE REMOVED FROM PIPING BEFORE INSTALLATION BEGINS. ALL WELDING SHOULD BE PERFORMED BY WELDERS CERTIFIED FOR THE PROCEDURES USED.

12. ATTACH 4" THICK KINGSPAN 900 SERIES ROOF PANELS AND 4" WALL PANELS FOR THE FILTER ANNEX BUILDING IN ACCORDANCE WITH THE FOLLOWING TWO ROOFNAV ASSEMBLIES.

12A. FOR ROOFNAV ASSEMBLY 1-0-0, ATTACH THE SHEET LAP USING #14 x $\frac{7}{8}$ IN. (22 MM) SELF-DRILLING FASTENERS WITH SEALING WASHERS IN ROWS SPACED ON 40 IN. INTERVALS WITH ON CENTER SPACING OF 18 IN. BETWEEN FASTENERS. ATTACH THE PANELS TO THE STRUCTURE USING HR ROOF SADDLE CLIPS AND #14 TYPE B SELF-TAPPING FASTENERS WITH 5/8 IN. DIA. NEOPRENE BACKED WASHERS IN ROWS SPACED ON 72 IN. INTERVALS WITH ON CENTER SPACING OF 13.3 IN. BETWEEN FASTENERS WITH ONE FASTENER PER CLIP.

12B. FOR ROOFNAV ASSEMBLY 1284-0-0, ATTACH THE SHEET LAP USING #14 X$\frac{7}{8}$ IN. (22 MM) SELF-DRILLING FASTENERS WITH SEALING WASHERS IN ROWS SPACED ON 40 IN. INTERVALS WITH ON CENTER SPACING OF 18 IN. BETWEEN FASTENERS. ATTACH THE PANELS TO THE STRUCTURE USING HR BATTEN SADDLE CLIPS AND #14 TYPE B SELF-TAPPING FASTENERS WITH 5/8 IN. DIA. NEOPRENE BACKED WASHERS IN ROWS SPACED ON 72 IN. INTERVALS WITH ON CENTER SPACING OF 13.3 IN. BETWEEN FASTENERS WITH ONE FASTENER PER CLIP.

ISSUED FOR BID
NOT FOR CONSTRUCTION
12-19-2023

EAGLE ENGINEERING LLC.
STRUCTURAL CONSULTING & DESIGN
567 W. 19th St., IDAHO FALLS, ID., 83402
PHONE: (208) 535-2241
FAX: (208) 535-2242

DOCUMENT STATUS:

ISSUED FOR BID
NOT FOR CONST.
12/19/2023

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

AMAL. SUGAR CO

AMALGAMATED
SUGAR CO
TWIN FALLS, ID FACILITY

DRAWING DESCRIPTION:

NEW ANNEX FILTER
BUILDING
GENERAL NOTES &
SPECIAL INSPECTIONS

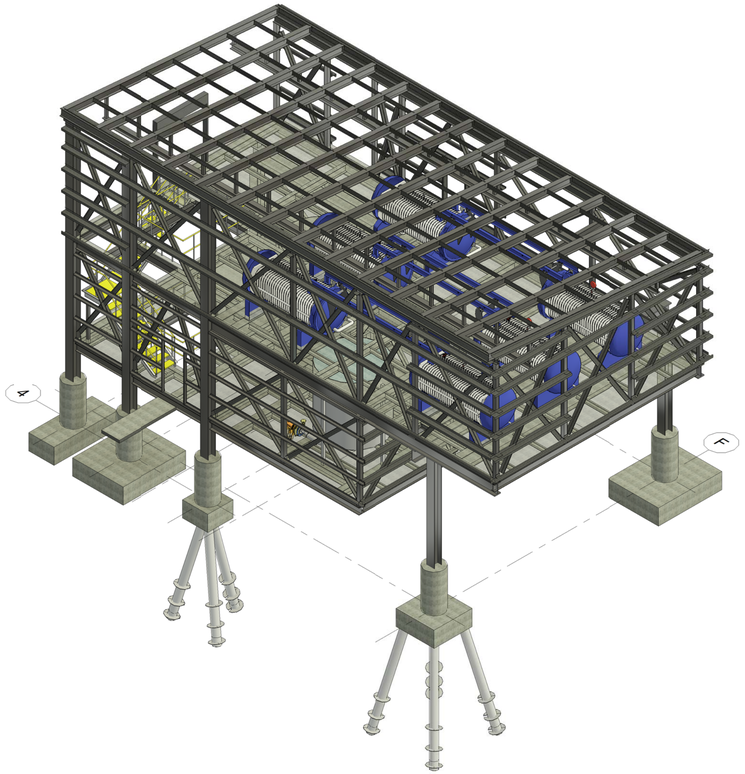
DRAWING INFORMATION:

Project number	23-10ASTI
Date	12-19-23
Drawn by	MPF
Checked by	MPF

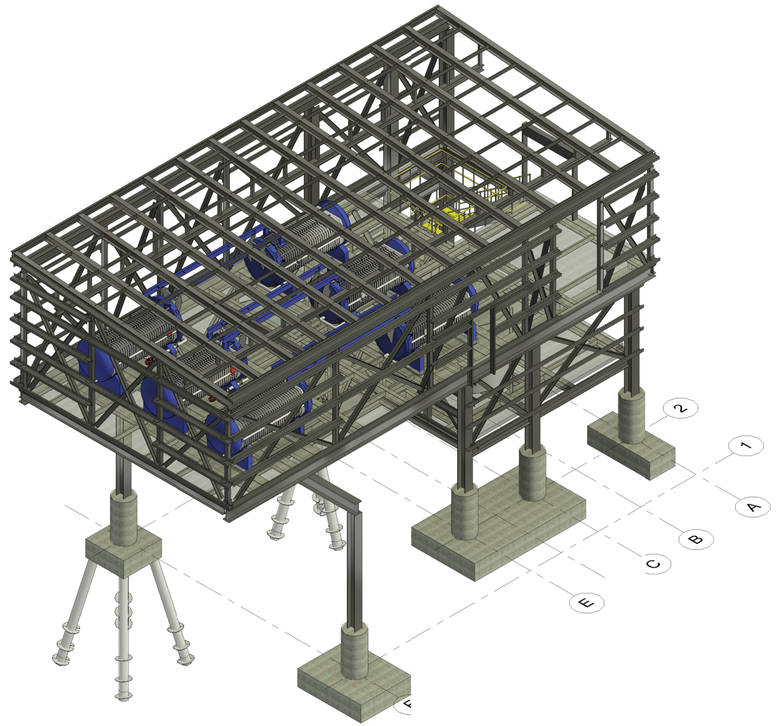
S-001

Scale	AS NOTED

T.A.S.C.O. TWIN FALLS, ID.
FILTER ANNEX BUILDING STRUCTURE



2 SOUTHEAST PERSPECTIVE



1 NORTHEAST PERSPECTIVE

ISSUED FOR BID
(NOT FOR CONSTRUCTION)
12-19-23

NOTES:

1. FOR GENERAL NOTES SEE S-001.

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DOCUMENT STATUS:

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12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

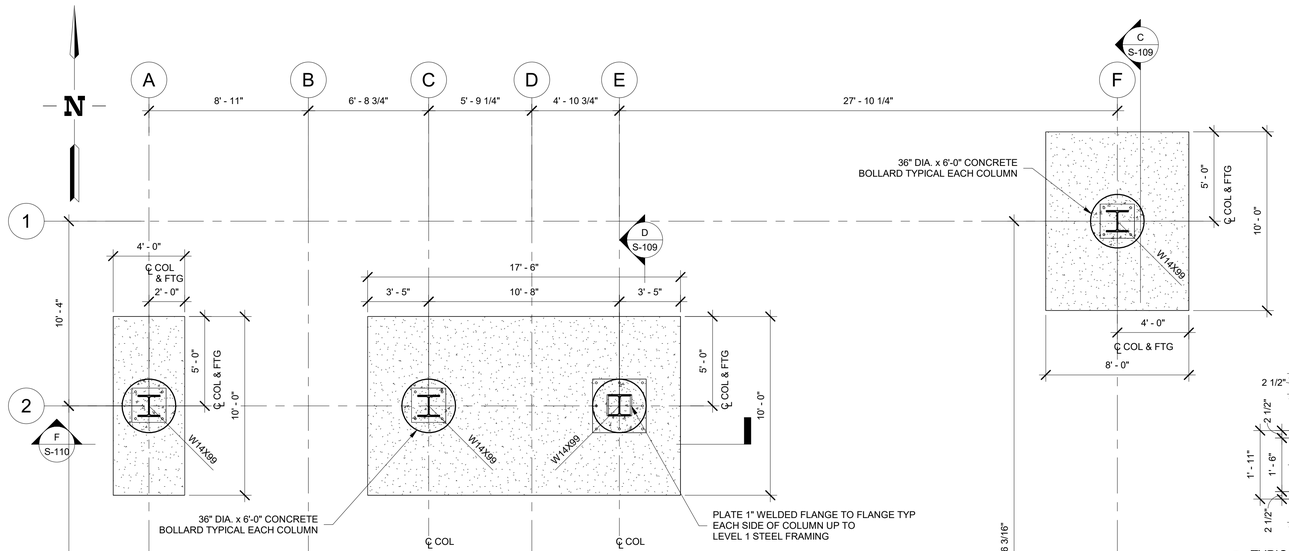
BUILDING STRUCTURE PERSPECTIVE VIEWS

DRAWING INFORMATION:

Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-100

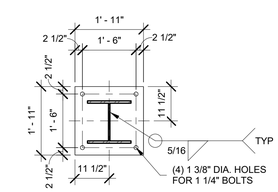
SCALE:



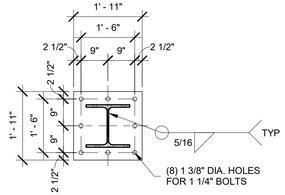
4 FOOTING AND FOUNDATION PLAN
1/4" = 1'-0"

BASEPLATE SCHEDULE: (ALL BASE PLATES ASTM A36)

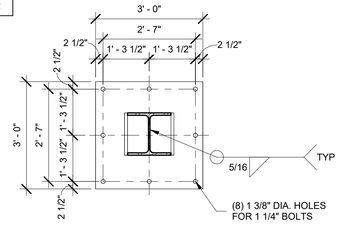
LOCATION	LENGTH	WIDTH	THICKNESS (in)	HOLE QTY.	HOLE DIA.	DETAIL
A-2	1'-11"	1'-11"	1 1/2"	4	1 3/8"	BP-1
A-4	1'-11"	1'-11"	1 1/2"	4	1 3/8"	BP-1
B-4	1'-11"	1'-11"	1 1/2"	4	1 3/8"	BP-1
C-2	1'-11"	1'-11"	1 1/2"	4	1 3/8"	BP-1
D-4	1'-11"	1'-11"	1 1/2"	4	1 3/8"	BP-1
E-2	3'-0"	3'-0"	2 1/2"	8	1 3/8"	BP-3
F-1	1'-11"	1'-11"	1 1/2"	4	1 3/8"	BP-1
F-3	1'-11"	1'-11"	1 1/2"	8	1 3/8"	BP-2



1 TYPICAL BASE PLATE TYPE BP-1
1/2" = 1'-0"



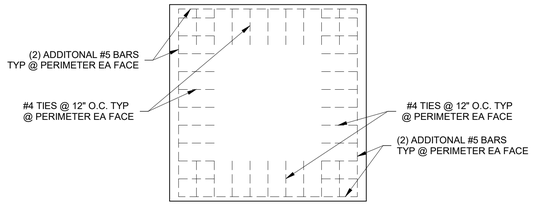
2 TYPICAL BASE PLATE TYPE BP-2
1/2" = 1'-0"



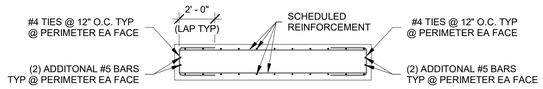
3 TYPICAL BASE PLATE TYPE BP-3
1/2" = 1'-0"

FOOTING SCHEDULE: (ALL CONCRETE (f'c = 4,000 PSI - 28 DAY STRENGTH)

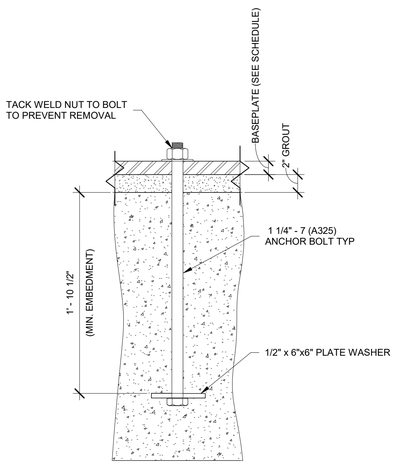
LOCATION	LENGTH	WIDTH	THICKNESS (in)	REINFORCEMENT / COMMENTS
A-2	10'-0"	4'-0"	30"	(4) #6 x 9'-6", (10) #6 x 3'-6" EACH WAY TOP & BOTTOM / ADDITIONAL REINFORCEMENT AS SHOWN BELOW
A-4	10'-0"	4'-0"	30"	(4) #6 x 9'-6", (10) #6 x 3'-6" EACH WAY TOP & BOTTOM / ADDITIONAL REINFORCEMENT AS SHOWN BELOW
B-4	10'-0"	8'-0"	30"	(8) #6 x 9'-6", (10) #6 x 7'-6" EACH WAY TOP & BOTTOM / ADDITIONAL REINFORCEMENT AS SHOWN BELOW
C-2	17'-6"	10'-0"	30"	(20) #6 x 17'-0", (36) #6 x 9'-6" EACH WAY TOP & BOTTOM / ADDITIONAL REINFORCEMENT AS SHOWN BELOW
D-4	4'-0"	4'-0"	30"	(4) #6 x 3'-6", (4) #6 x 3'-6" EACH WAY TOP & BOTTOM / ADDITIONAL REINFORCEMENT AS SHOWN BELOW
E-2	17'-6"	10'-0"	30"	(20) #6 x 17'-0", (36) #6 x 9'-6" EACH WAY TOP & BOTTOM / ADDITIONAL REINFORCEMENT AS SHOWN BELOW
F-1	10'-0"	8'-0"	30"	(8) #6 x 9'-6", (10) #6 x 7'-6" EACH WAY TOP & BOTTOM / ADDITIONAL REINFORCEMENT AS SHOWN BELOW
F-3	6'-0"	6'-0"	30"	(12) #6 x 5'-6", (12) #6 x 5'-6" EACH WAY TOP & BOTTOM / ADDITIONAL REINFORCEMENT AS SHOWN BELOW



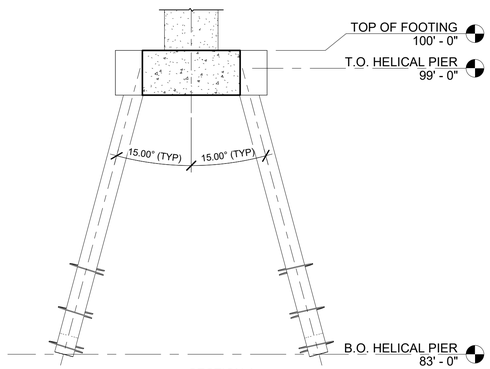
ADDITIONAL REINFORCEMENT
PLAN VIEW: N.T.S.



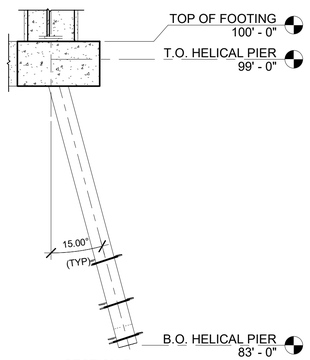
ADDITIONAL REINFORCEMENT
SECTION VIEW: N.T.S.



5 TYPICAL ANCHOR BOLT - 1 1/4" - 7 (ASTM A325)
1 1/2" = 1'-0"



A SECTION A
1/4" = 1'-0"



B SECTION B
1/4" = 1'-0"

ISSUED FOR BID
(NOT FOR CONSTRUCTION)
12-19-23

NOTES:
1. FOR GENERAL NOTES SEE S-001.

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PHONE: (208) 535-2241
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DOCUMENT STATUS:

ISSUED FOR BID NOT FOR CONSTRUCTION
12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

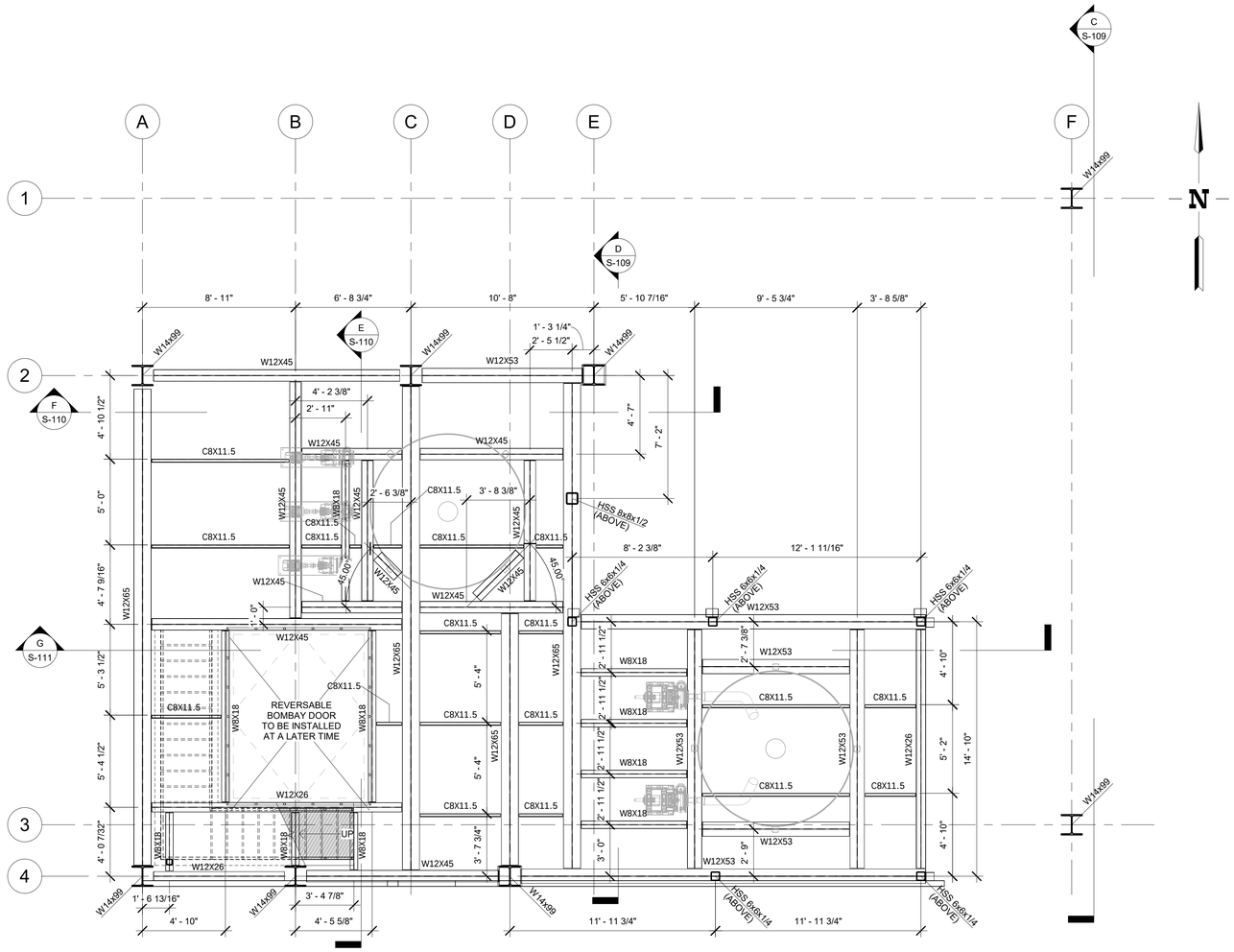
FOOTING AND FOUNDATION PLAN, BASE PLATE SCHEDULE, FOOTING SCHEDULE, AND TYPICAL ANCHOR BOLT DETAIL

DRAWING INFORMATION:

Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-101

SCALE: As indicated



1 TOS @ EL LEVEL 1
1/4" = 1'-0"

ISSUED FOR BID
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12-19-23

NOTES:

1. FOR GENERAL NOTES SEE S-001.

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DOCUMENT STATUS:

ISSUED FOR BID NOT FOR CONSTRUCTION
12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

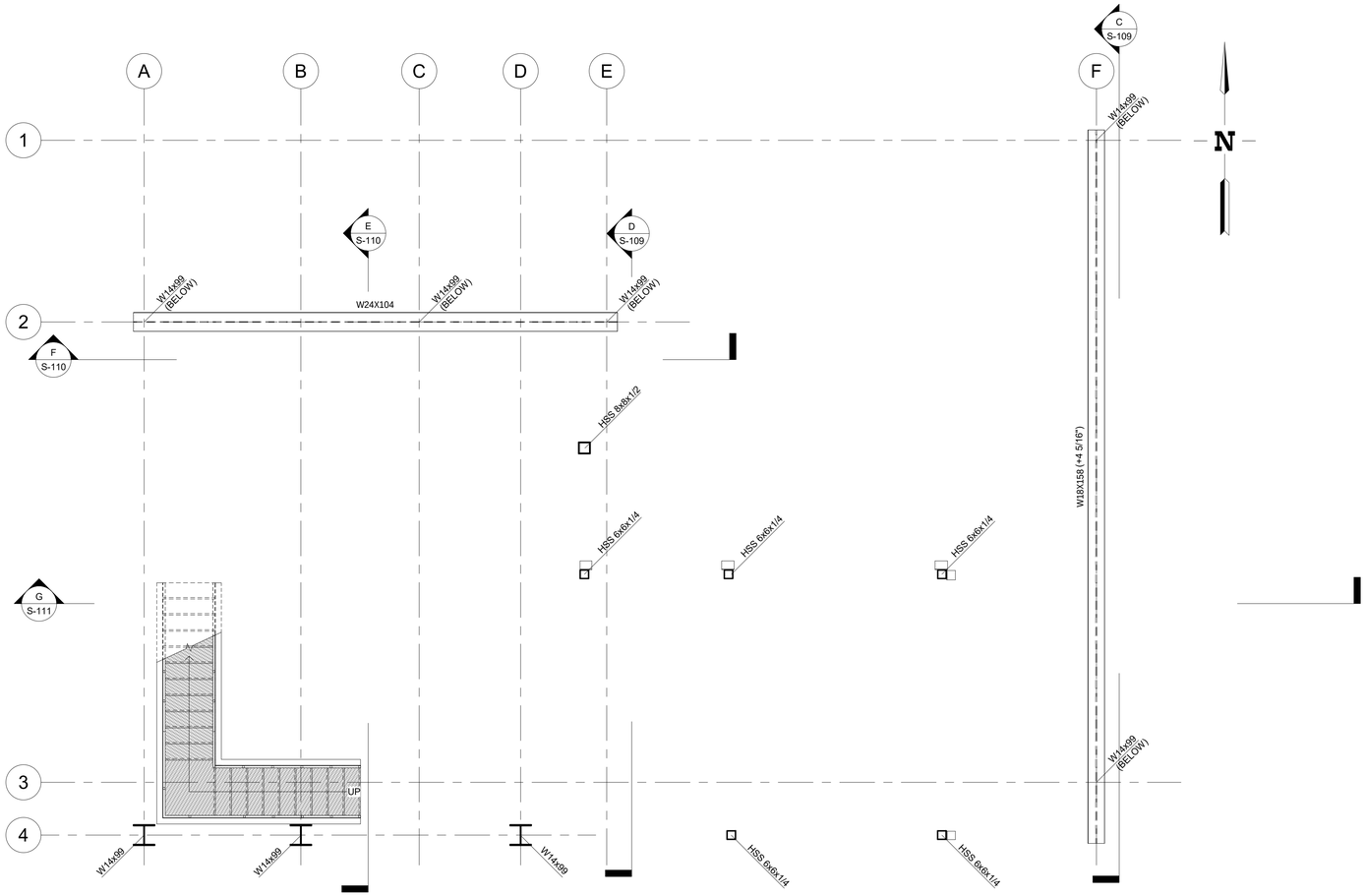
FRAMING PLAN AT TOP OF STEEL LEVEL 1

DRAWING INFORMATION:

Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-102

SCALE: 1/4" = 1'-0"



1 TOS @ EL LEVEL 1.5
1/4" = 1'-0"

NOTES:

1. FOR GENERAL NOTES SEE S-001.

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ISSUED FOR BID NOT FOR CONSTRUCTION
12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

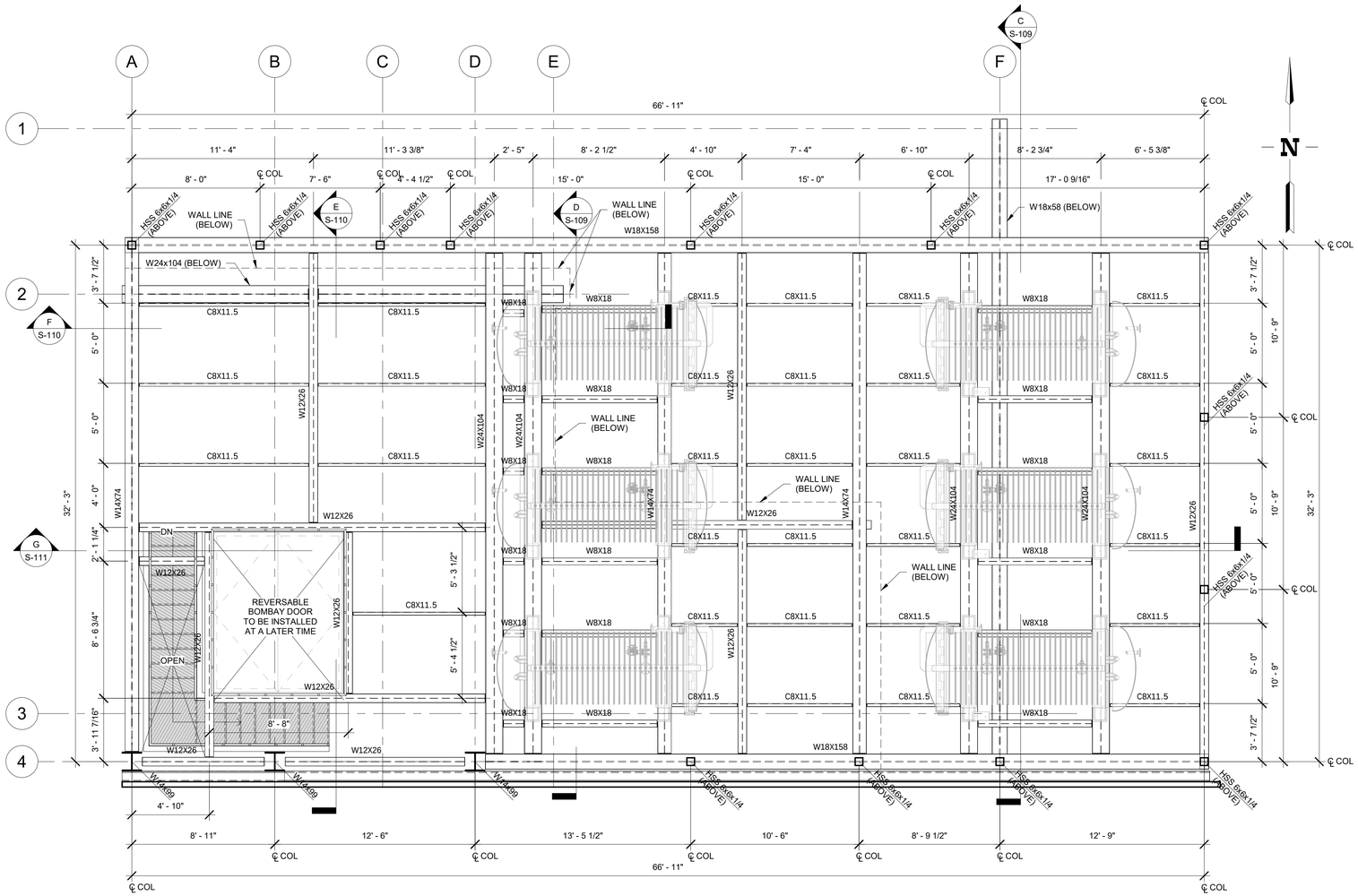
FRAMING PLAN AT TOP OF STEEL LEVEL 1.5

DRAWING INFORMATION:

Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-103

SCALE: 1/4" = 1'-0"



1 TOS @ EL LEVEL 2
1/4" = 1'-0"

ISSUED FOR BID
(NOT FOR CONSTRUCTION)
12-19-23

NOTES:

1. FOR GENERAL NOTES SEE S-001.

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DOCUMENT STATUS:

ISSUED FOR BID NOT FOR CONSTRUCTION
12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

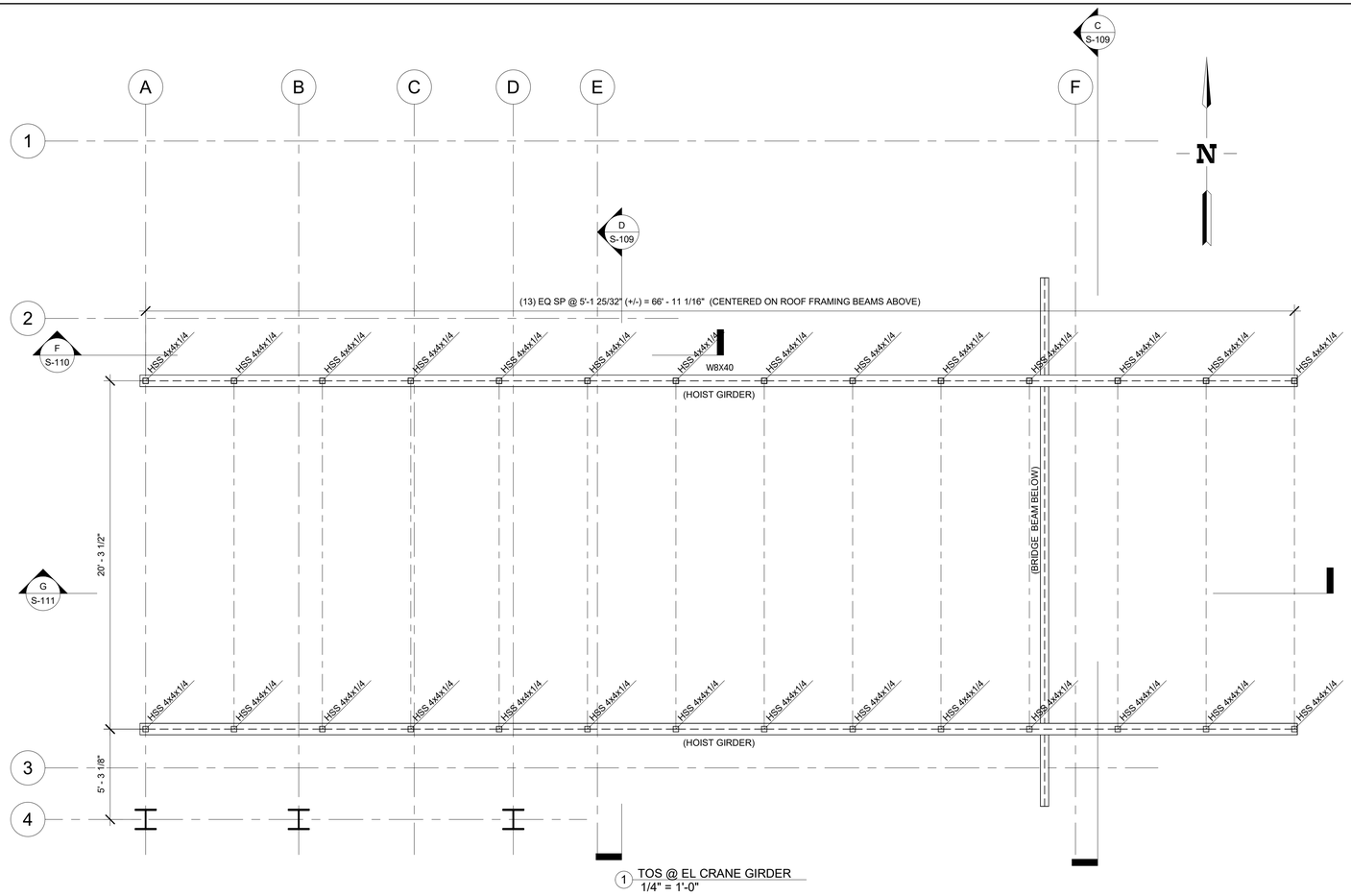
FRAMING PLAN AT TOP OF STEEL LEVEL 2

DRAWING INFORMATION:

Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-104

SCALE: 1/4" = 1'-0"



1 TOS @ EL CRANE GIRDER
1/4" = 1'-0"

ISSUED FOR BID
(NOT FOR CONSTRUCTION)
12-19-23

NOTES:

1. FOR GENERAL NOTES SEE S-001.

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DOCUMENT STATUS:

ISSUED FOR BID NOT FOR CONSTRUCTION
12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

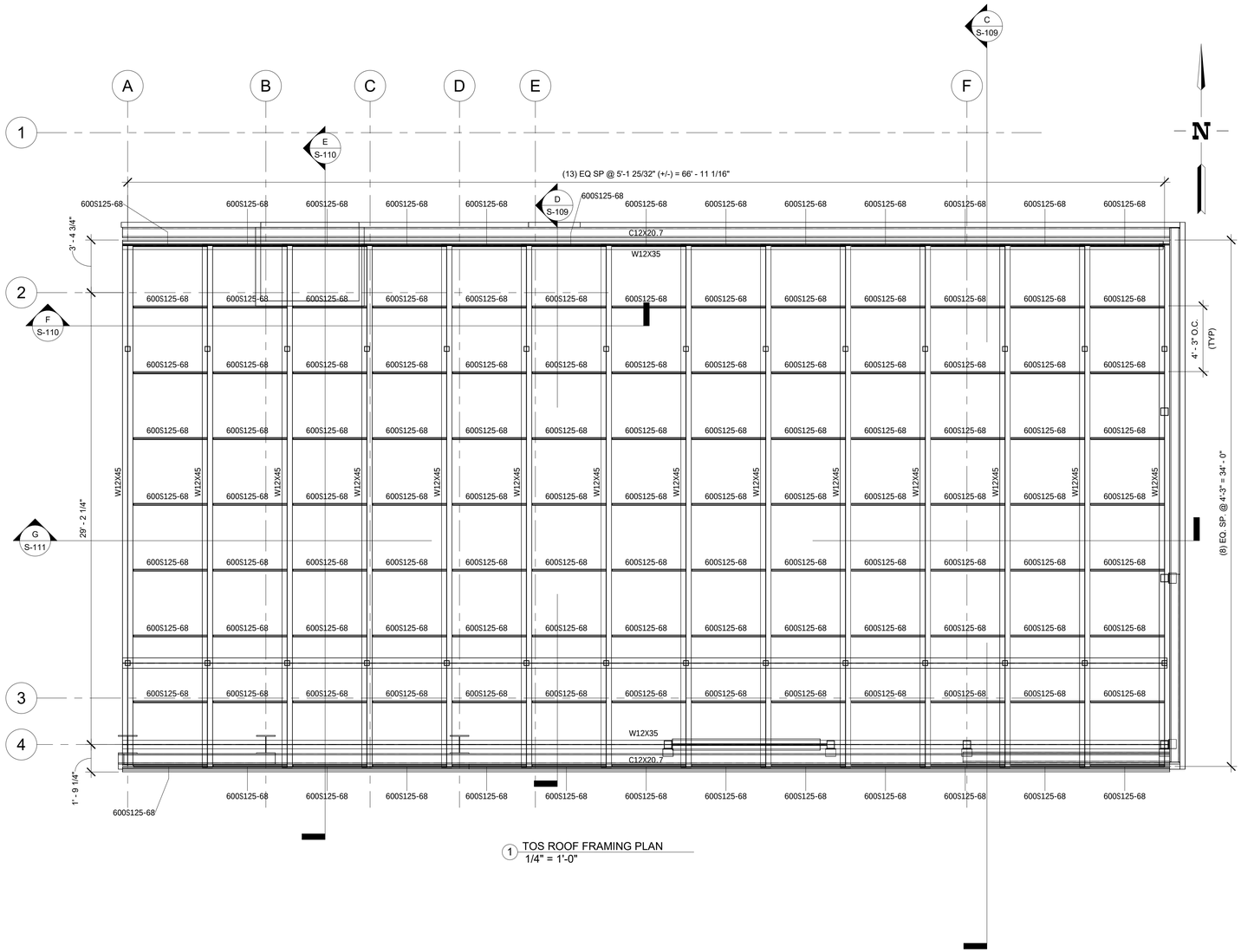
FRAMING PLAN AT TOP OF STEEL CRANE GIRDER

DRAWING INFORMATION:

Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-105

SCALE: 1/4" = 1'-0"



1 TOS ROOF FRAMING PLAN
1/4" = 1'-0"

ISSUED FOR BID
(NOT FOR CONSTRUCTION)
12-19-23

NOTES:

1. FOR GENERAL NOTES SEE S-001.

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DOCUMENT STATUS:

ISSUED FOR BID NOT FOR CONSTRUCTION
12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

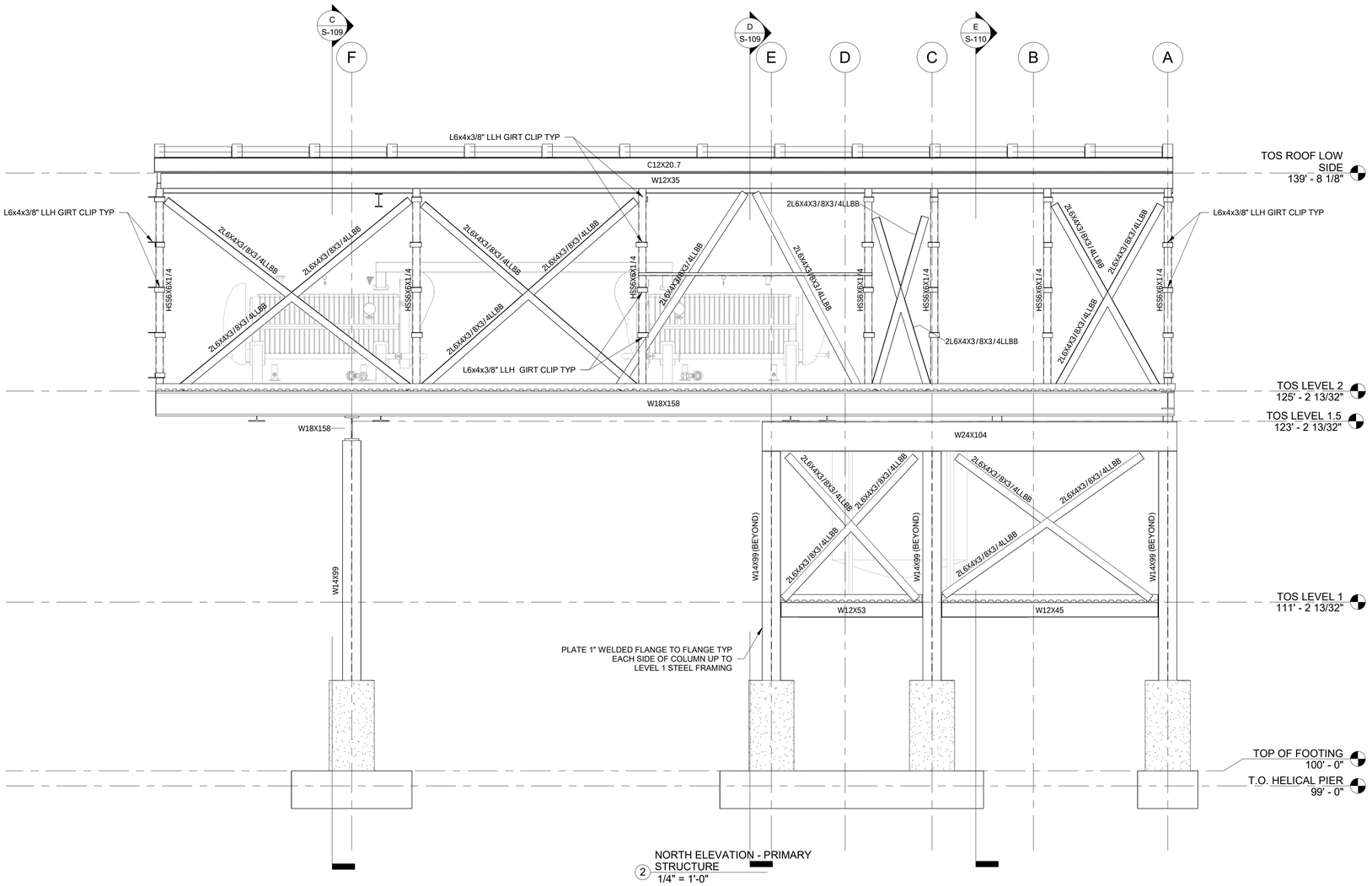
ROOF FRAMING PLAN

DRAWING INFORMATION:

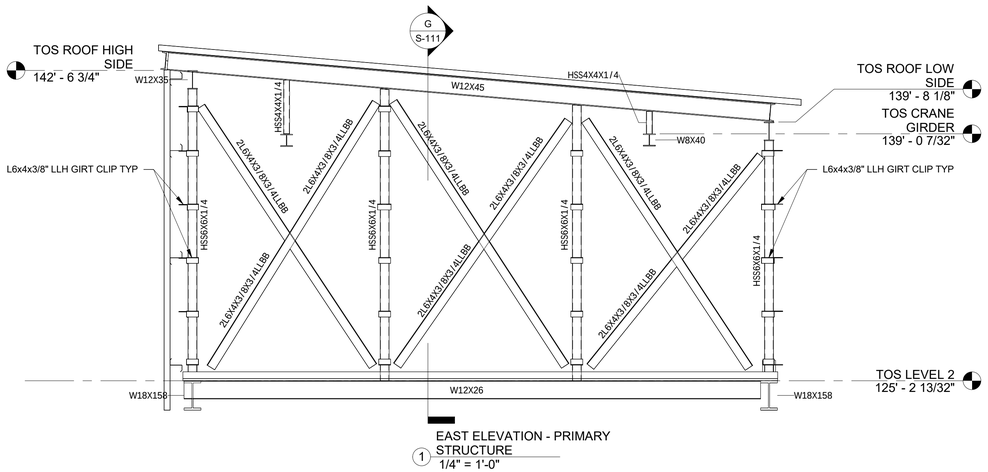
Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-106

SCALE: 1/4" = 1'-0"



NORTH ELEVATION - PRIMARY STRUCTURE
1/4" = 1'-0"



EAST ELEVATION - PRIMARY STRUCTURE
1/4" = 1'-0"

ISSUED FOR BID
(NOT FOR CONSTRUCTION)
12-19-23

NOTES:

1. FOR GENERAL NOTES SEE S-001.

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12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

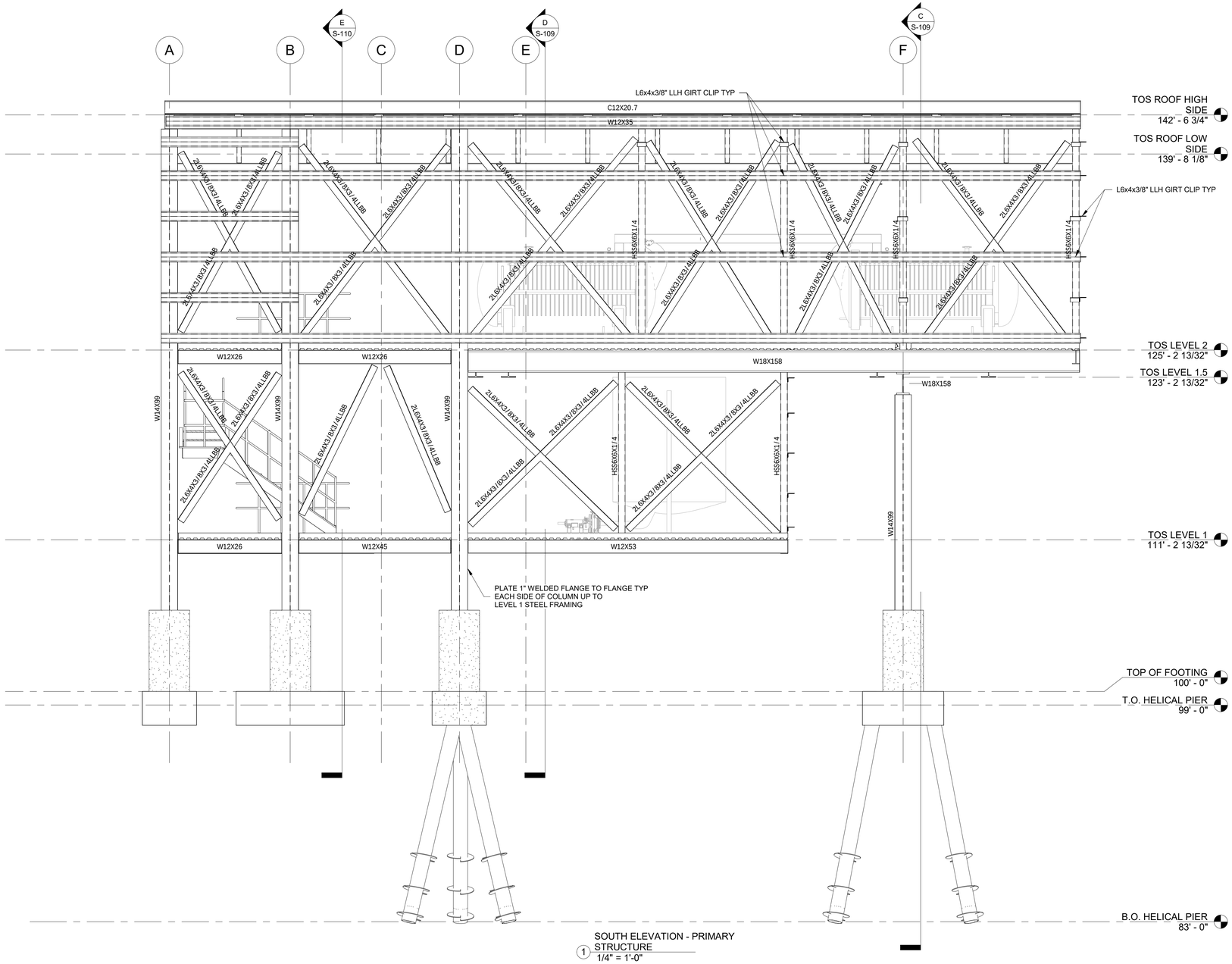
NORTH AND EAST ELEVATIONS

DRAWING INFORMATION:

Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-107

SCALE: 1/4" = 1'-0"



1 SOUTH ELEVATION - PRIMARY STRUCTURE
1/4" = 1'-0"

ISSUED FOR BID
(NOT FOR CONSTRUCTION)
12-19-23

NOTES:

1. FOR GENERAL NOTES SEE S-001.

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DOCUMENT STATUS:

ISSUED FOR BID NOT FOR CONSTRUCTION
12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

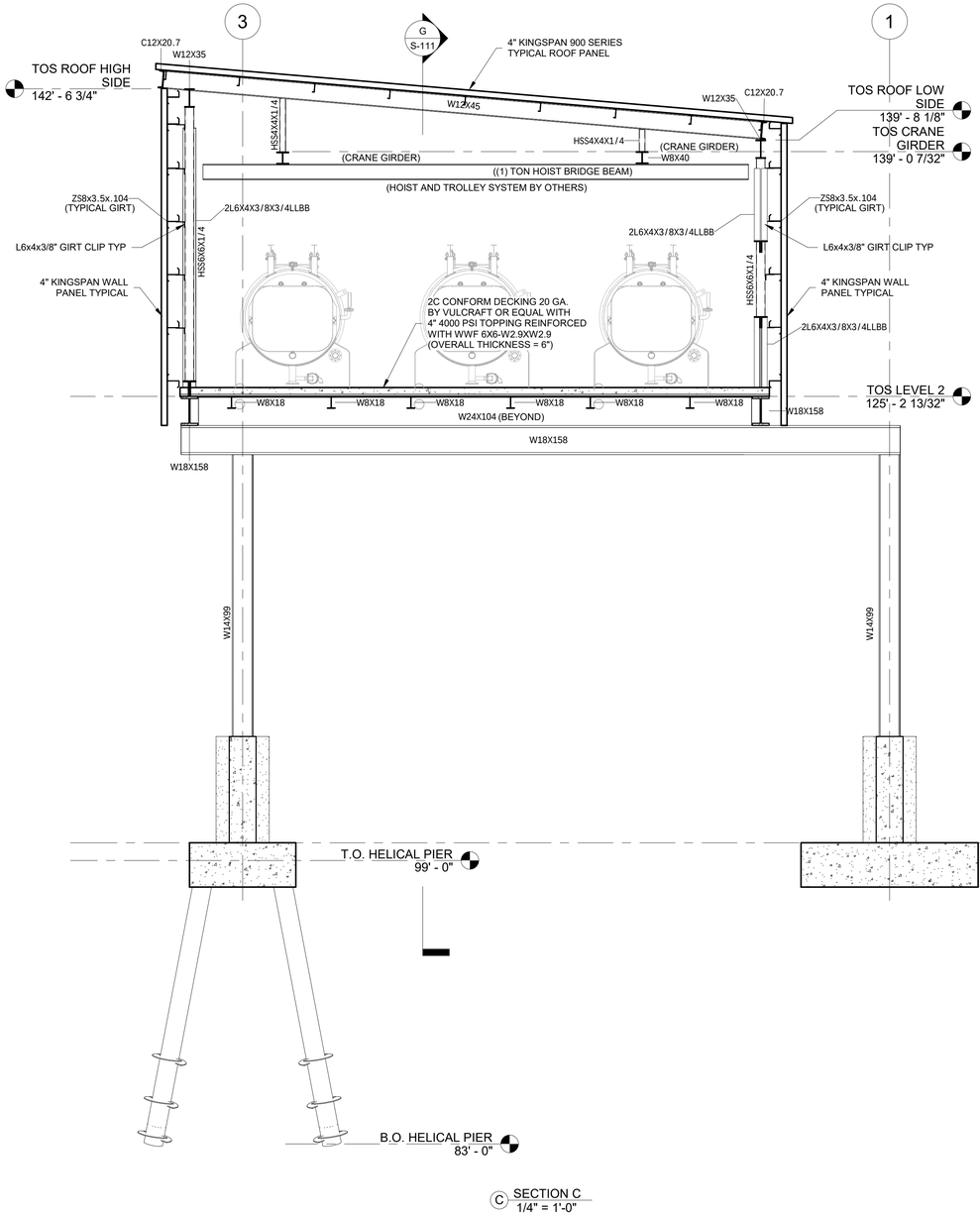
SOUTH ELEVATION

DRAWING INFORMATION:

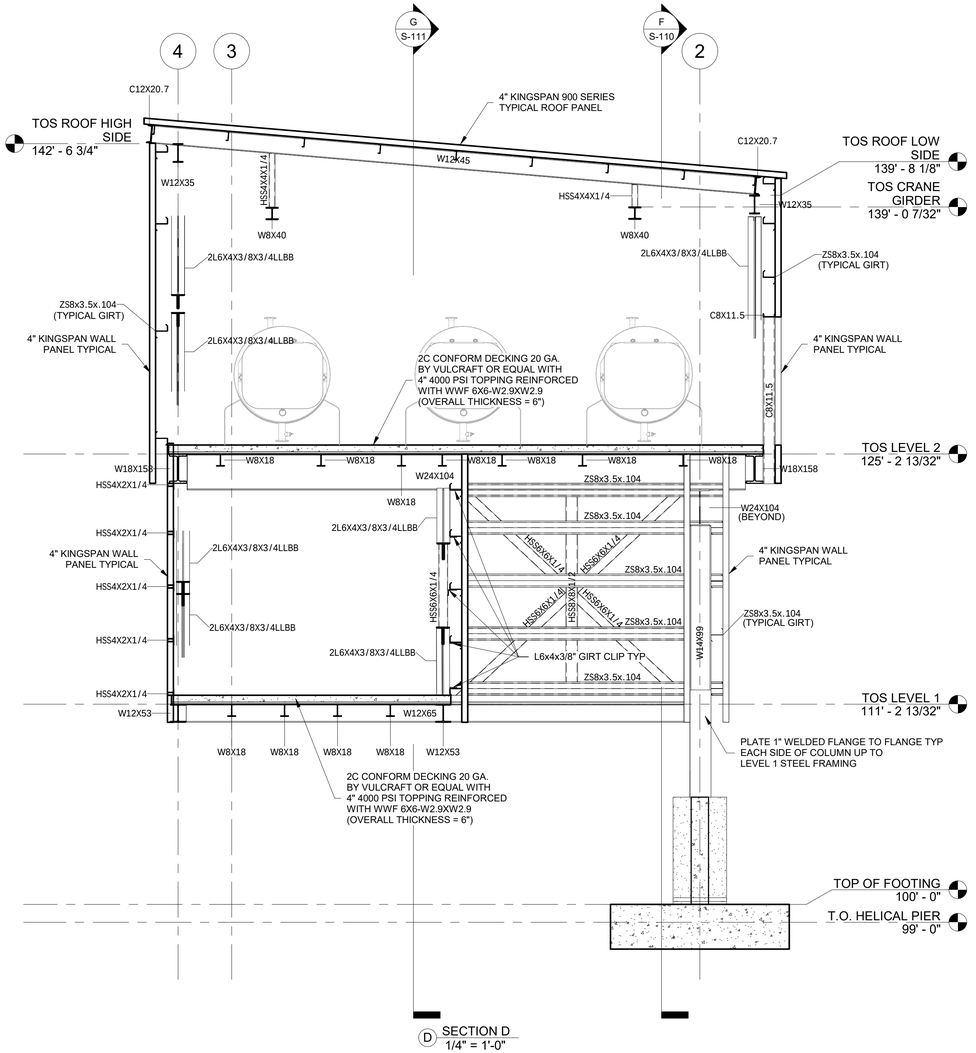
Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-108

SCALE: 1/4" = 1'-0"



C SECTION C
1/4" = 1'-0"



D SECTION D
1/4" = 1'-0"

ISSUED FOR BID
(NOT FOR CONSTRUCTION)
12-19-23

NOTES:

1. FOR GENERAL NOTES SEE S-001.

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DOCUMENT STATUS:

ISSUED FOR BID NOT FOR CONSTRUCTION
12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

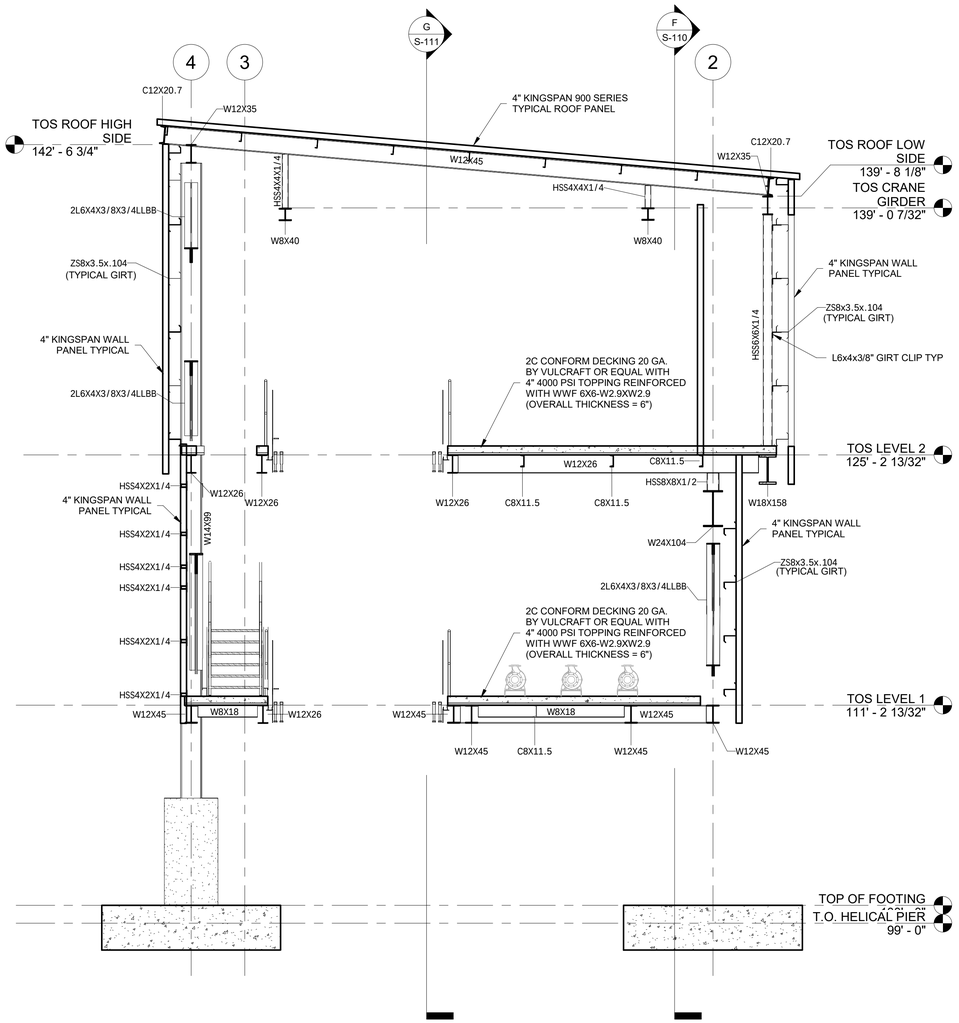
BUILDING SECTIONS
SHEET #1

DRAWING INFORMATION:

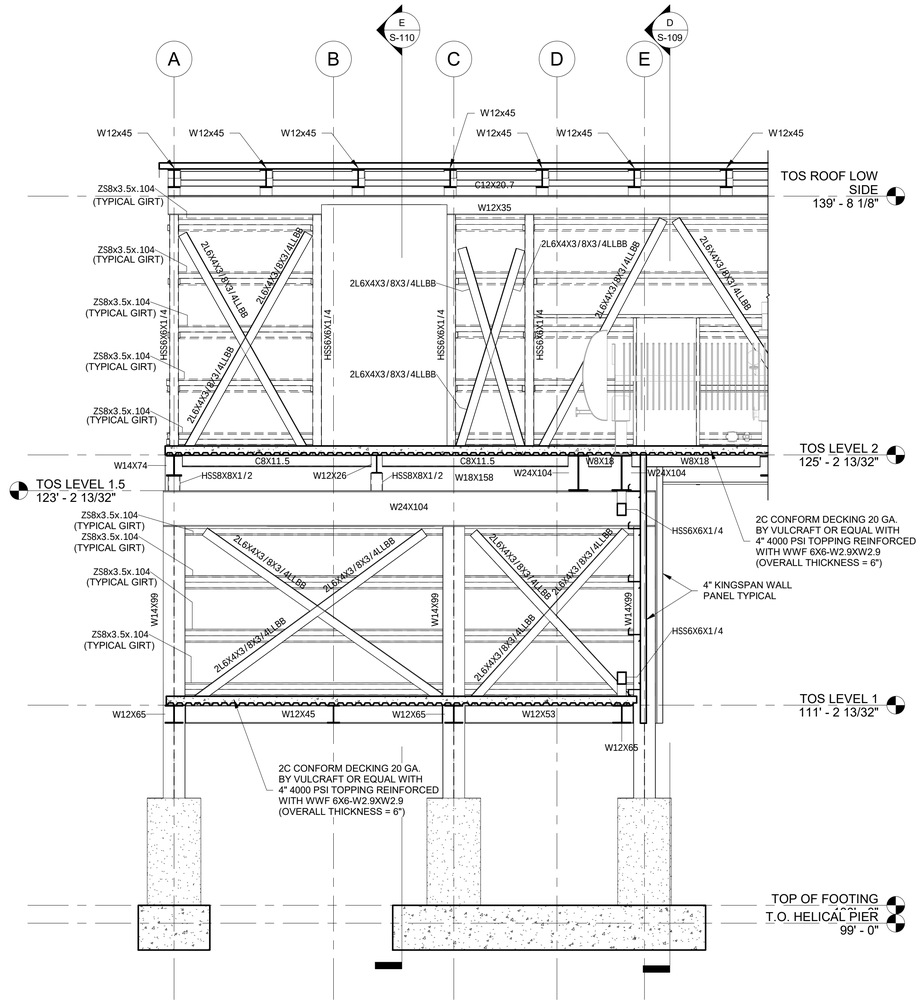
Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-109

SCALE: 1/4" = 1'-0"



E SECTION E
1/4" = 1'-0"



F SECTION F
1/4" = 1'-0"

ISSUED FOR BID
(NOT FOR CONSTRUCTION)
12-19-23

NOTES:

1. FOR GENERAL NOTES SEE S-001.

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DOCUMENT STATUS:

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12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

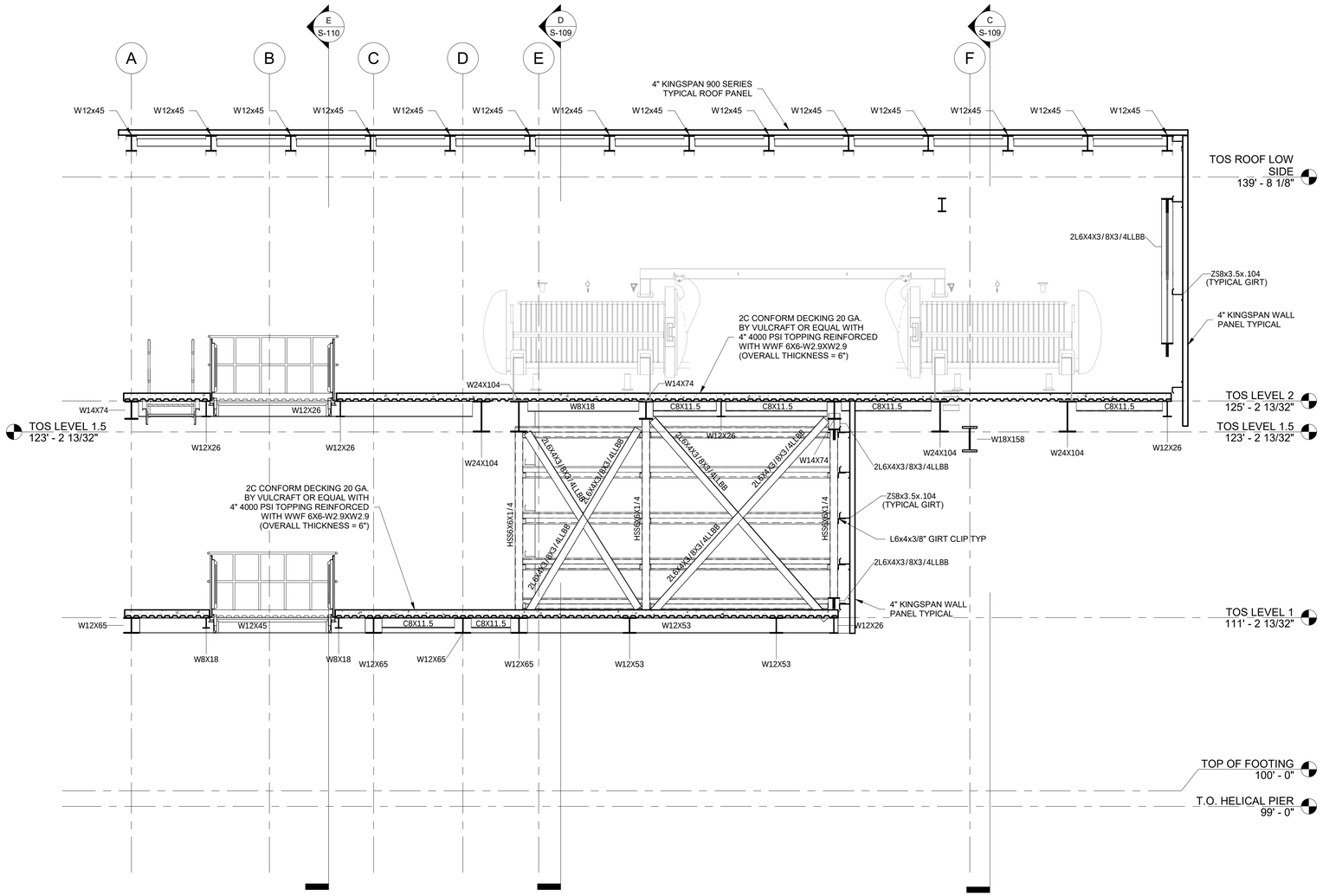
BUILDING SECTIONS
SHEET #2

DRAWING INFORMATION:

Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-110

SCALE: 1/4" = 1'-0"



G SECTION G
1/4" = 1'-0"

ISSUED FOR BID
(NOT FOR CONSTRUCTION)
12-19-23

NOTES:
1. FOR GENERAL NOTES SEE S-001.

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12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

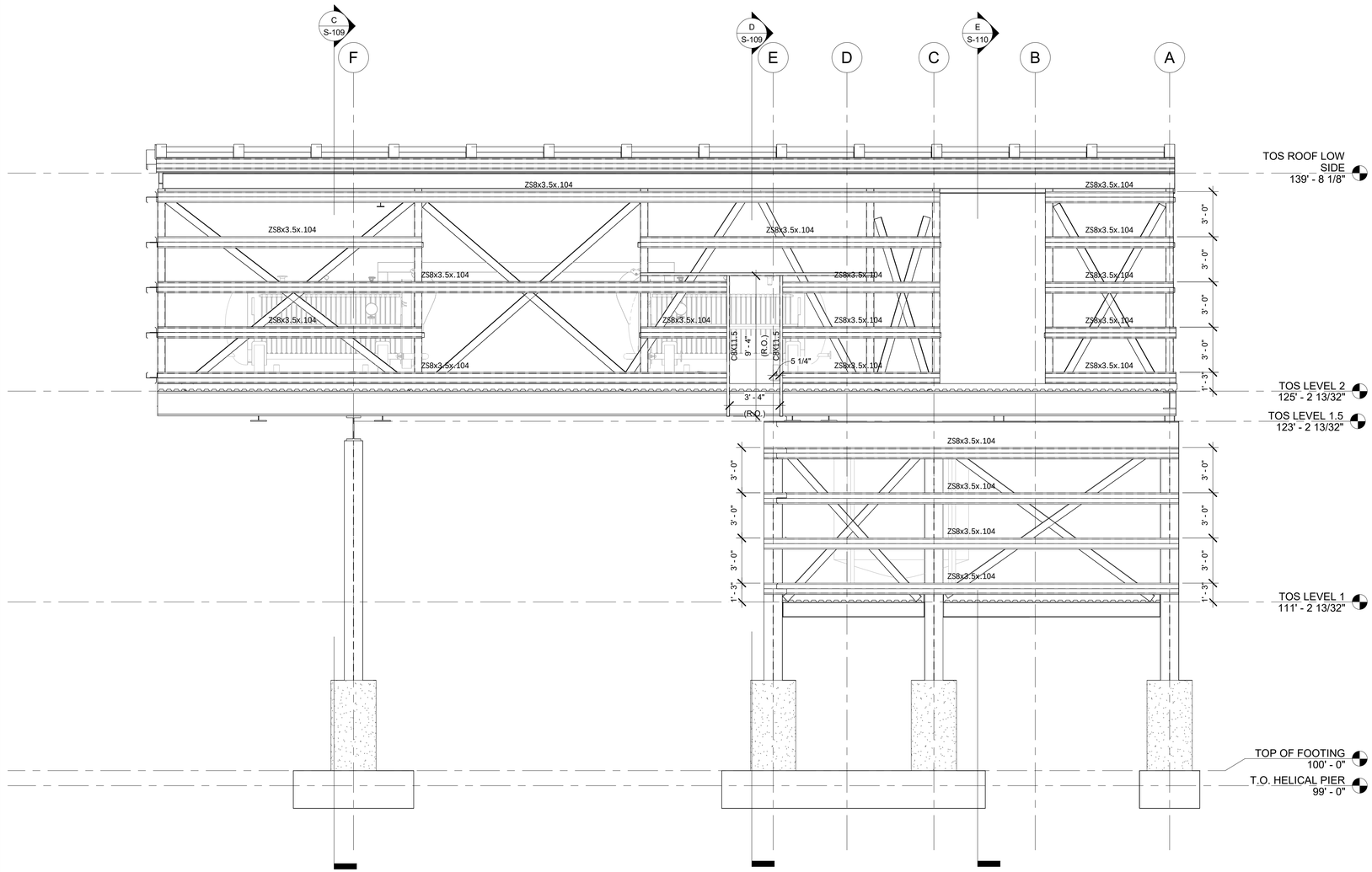
BUILDING SECTIONS SHEET #3

DRAWING INFORMATION:

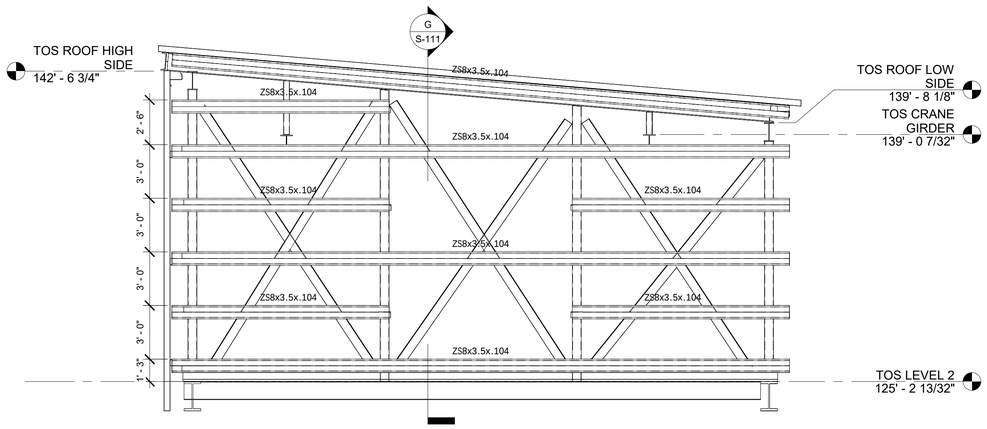
Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-111

SCALE: 1/4" = 1'-0"



1 NORTH ELEVATION - GIRT FRAMING
1/4" = 1'-0"



2 EAST ELEVATION - GIRT FRAMING
1/4" = 1'-0"

ISSUED FOR BID
(NOT FOR CONSTRUCTION)
12-19-23

NOTES:
1. FOR GENERAL NOTES SEE S-001.

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DOCUMENT STATUS:

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12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

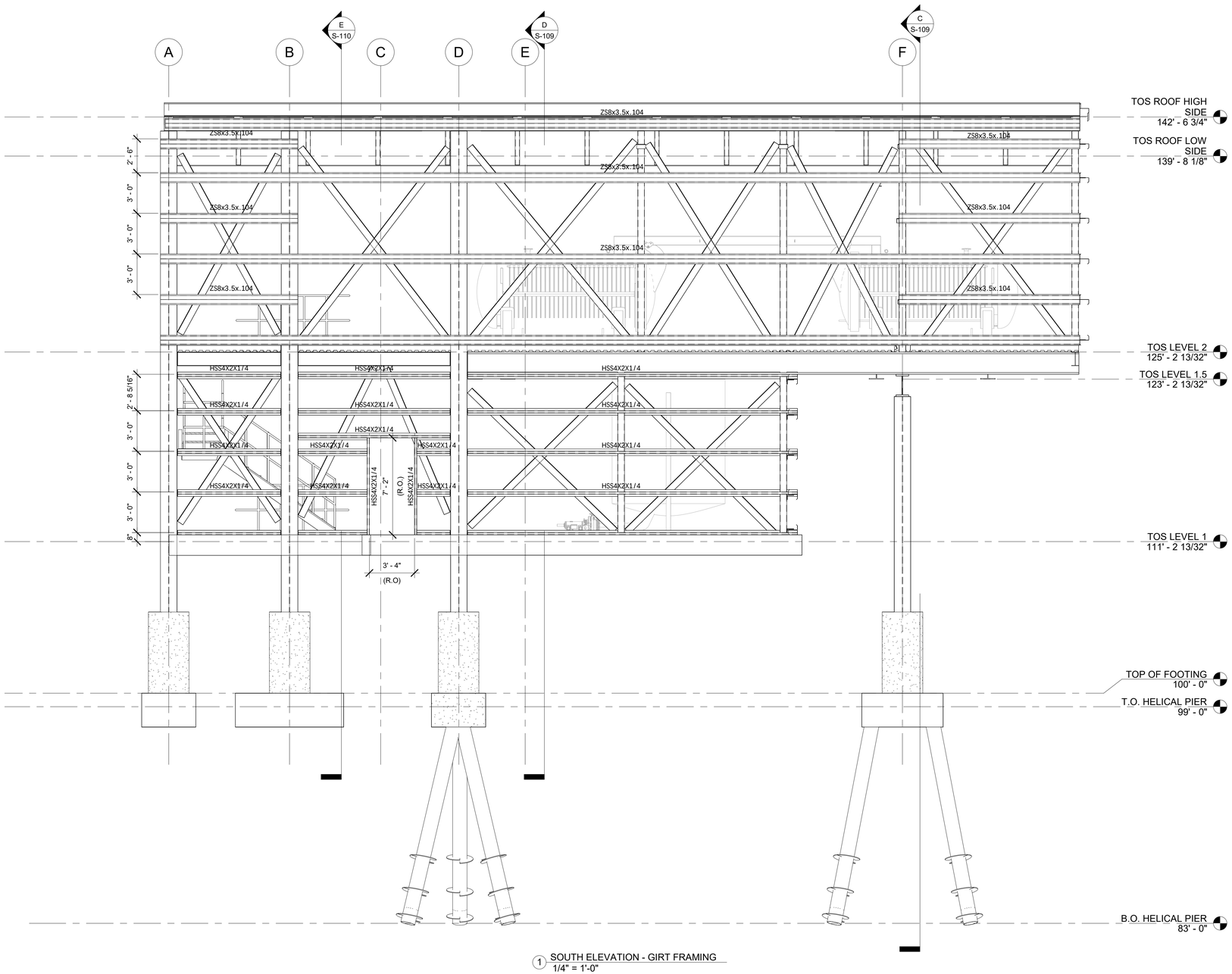
NORTH ELEVATION GIRT FRAMING AND EAST ELEVATION GIRT FRAMING

DRAWING INFORMATION:

Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-112

SCALE: 1/4" = 1'-0"



1 SOUTH ELEVATION - GIRT FRAMING
1/4" = 1'-0"

ISSUED FOR BID
(NOT FOR CONSTRUCTION)
12-19-23

NOTES:
1. FOR GENERAL NOTES SEE S-001.

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DOCUMENT STATUS:

ISSUED FOR BID NOT FOR CONSTRUCTION
12-19-23

REVISION INFORMATION:

No.	Description	Issued by	Date
P	ISSUED FOR BID	MPF	12-19-23

CLIENT / PROJECT DESCRIPTION:

TASCO - TWIN FALLS, ID.

FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

SOUTH ELEVATION GIRT FRAMING

DRAWING INFORMATION:

Project number	23-10 asti
Date	12-19-23
Drawn by	PNF
Checked by	MPF

S-113

SCALE: 1/4" = 1'-0"

STRUCTURAL FRAMING SCHEDULE

TYPE	STRUCTURAL MATERIAL	COUNT	LENGTH	VOLUME	WEIGHT (Kips)	COMMENTS
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	22' - 0 17/32"	0.99 CF	0.49 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	21' - 6"	1.02 CF	0.51 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	21' - 2 17/32"	0.94 CF	0.47 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	2	21' - 1 27/32"	0.96 CF	0.95 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	21' - 1 15/32"	0.95 CF	0.47 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	2	20' - 6 11/16"	0.89 CF	0.88 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	20' - 4 5/16"	0.96 CF	0.48 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	20' - 3 9/16"	0.91 CF	0.45 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	20' - 0 5/8"	0.88 CF	0.43 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	19' - 11 7/16"	0.94 CF	0.47 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	19' - 11 3/32"	0.91 CF	0.45 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	19' - 9 13/32"	0.93 CF	0.46 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	19' - 8 13/32"	0.88 CF	0.44 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	19' - 6 1/8"	0.83 CF	0.41 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	19' - 5 5/8"	0.87 CF	0.43 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	19' - 5 3/16"	0.80 CF	0.40 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	19' - 4 7/8"	0.88 CF	0.44 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	19' - 3 3/16"	0.85 CF	0.42 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	19' - 0 29/32"	0.81 CF	0.40 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	19' - 0 17/32"	0.85 CF	0.42 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	18' - 9 5/16"	0.84 CF	0.41 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	2	18' - 7 3/16"	0.76 CF	0.75 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	18' - 5 5/8"	0.86 CF	0.42 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	18' - 2 1/32"	0.84 CF	0.41 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	17' - 1 11/16"	0.00 CF	0.00 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	17' - 1 7/16"	0.76 CF	0.38 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	17' - 0 1/4"	0.78 CF	0.38 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	2	16' - 9 13/32"	<varies>	0.76 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	16' - 8"	0.75 CF	0.37 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	16' - 5 1/2"	0.78 CF	0.39 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	16' - 4 5/32"	0.70 CF	0.35 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	16' - 3 13/16"	0.70 CF	0.35 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	16' - 3 5/8"	0.70 CF	0.35 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	16' - 1 1/2"	0.74 CF	0.37 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	16' - 1 9/32"	0.66 CF	0.32 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	15' - 11 3/4"	0.65 CF	0.32 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	15' - 8 3/32"	0.65 CF	0.32 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	15' - 5 11/16"	0.64 CF	0.32 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	15' - 4 7/8"	0.60 CF	0.30 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	15' - 4 15/32"	0.67 CF	0.33 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	15' - 4 1/4"	0.61 CF	0.30 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	14' - 10 29/32"	0.60 CF	0.30 kip	
2L6X4X3/8X3/4LLBB	Steel ASTM A36	1	14' - 9 15/16"	0.58 CF	0.29 kip	
2L6X4X3/8X3/4LLBB: 47					18.33 kip	
600S125-68	Steel Cold Formed (50 ksi Yield)	117	5' - 1 25/32"	0.02 CF	1.18 kip	
600S125-68: 117					1.18 kip	
C8X11.5	Steel ASTM A36	1	15' - 0"	0.43 CF	0.21 kip	
C8X11.5	Steel ASTM A36	3	11' - 4"	0.29 CF	0.44 kip	
C8X11.5	Steel ASTM A36	3	11' - 3 3/8"	0.29 CF	0.43 kip	
C8X11.5	Steel ASTM A36	2	9' - 5 3/4"	0.24 CF	0.24 kip	
C8X11.5	Steel ASTM A36	1	9' - 1 13/32"	0.23 CF	0.11 kip	
C8X11.5	Steel ASTM A36	2	8' - 11"	0.22 CF	0.22 kip	
C8X11.5	Steel ASTM A36	3	7' - 4"	0.18 CF	0.27 kip	
C8X11.5	Steel ASTM A36	3	7' - 3 23/32"	0.18 CF	0.27 kip	
C8X11.5	Steel ASTM A36	1	6' - 11 1/4"	0.17 CF	0.08 kip	
C8X11.5	Steel ASTM A36	6	6' - 10"	0.16 CF	0.48 kip	
C8X11.5	Steel ASTM A36	6	6' - 5 13/32"	0.15 CF	0.46 kip	
C8X11.5	Steel ASTM A36	3	5' - 9 1/4"	0.13 CF	0.19 kip	
C8X11.5	Steel ASTM A36	3	4' - 10 9/32"	0.11 CF	0.17 kip	
C8X11.5	Steel ASTM A36	4	4' - 10"	0.11 CF	0.22 kip	
C8X11.5	Steel ASTM A36	2	3' - 8 5/8"	0.08 CF	0.08 kip	
C8X11.5	Steel ASTM A36	3	3' - 7 17/32"	0.07 CF	0.11 kip	

STRUCTURAL FRAMING SCHEDULE

TYPE	STRUCTURAL MATERIAL	COUNT	LENGTH	VOLUME	WEIGHT (Kips)	COMMENTS
C8X11.5	Steel ASTM A36	1	2' - 11"	0.06 CF	0.03 kip	
C8X11.5	Steel ASTM A36	1	2' - 6 13/32"	0.04 CF	0.02 kip	
C8X11.5	Steel ASTM A36	1	2' - 5 1/2"	0.04 CF	0.02 kip	
C8X11.5	Steel ASTM A36	1	2' - 3 1/8"	0.04 CF	0.02 kip	
C8X11.5	Steel ASTM A36	1	1' - 3 11/32"	0.02 CF	0.01 kip	
C8X11.5: 51					4.09 kip	
C12X20.7	Steel ASTM A36	2	66' - 11 1/16"	3.36 CF	3.33 kip	
C12X20.7: 2					3.33 kip	
FL 1/4X4	Steel ASTM A36	1	11' - 5 3/4"	0.08 CF	0.04 kip	
FL 1/4X4	Steel ASTM A36	1	11' - 1"	0.08 CF	0.04 kip	
FL 1/4X4	Steel ASTM A36	1	7' - 7 1/2"	0.05 CF	0.03 kip	
FL 1/4X4	Steel ASTM A36	1	5' - 3"	0.04 CF	0.02 kip	
FL 1/4X4	Steel ASTM A36	1	3' - 4"	0.02 CF	0.01 kip	
FL 1/4X4	Steel ASTM A36	1	3' - 3"	0.02 CF	0.01 kip	
FL 1/4X4	Steel ASTM A36	1	9 13/32"	0.01 CF	0.00 kip	
FL 1/4X4: 7					0.14 kip	
FL 1/4X6	Steel ASTM A36	2	11' - 10 7/32"	0.12 CF	0.12 kip	
FL 1/4X6	Steel ASTM A36	1	11' - 6"	0.12 CF	0.06 kip	
FL 1/4X6	Steel ASTM A36	3	11' - 5 3/4"	0.12 CF	0.18 kip	
FL 1/4X6	Steel ASTM A36	1	11' - 1 1/4"	0.12 CF	0.06 kip	
FL 1/4X6	Steel ASTM A36	3	11' - 1"	0.12 CF	0.17 kip	
FL 1/4X6	Steel ASTM A36	4	7' - 7 1/2"	0.08 CF	0.16 kip	
FL 1/4X6	Steel ASTM A36	1	5' - 3 1/16"	0.05 CF	0.03 kip	
FL 1/4X6	Steel ASTM A36	1	5' - 3 1/32"	0.05 CF	0.03 kip	
FL 1/4X6	Steel ASTM A36	1	5' - 3"	0.05 CF	0.03 kip	
FL 1/4X6	Steel ASTM A36	2	3' - 3 1/4"	0.03 CF	0.03 kip	
FL 1/4X6	Steel ASTM A36	1	3' - 3 3/16"	0.03 CF	0.01 kip	
FL 1/4X6	Steel ASTM A36	3	11 13/32"	0.01 CF	0.01 kip	
FL 1/4X6	Steel ASTM A36	1	9 3/8"	0.01 CF	0.00 kip	
FL 1/4X6: 24					0.88 kip	
HSS4X2X1/4	Steel ASTM A500, Grade B, Rectangular and Square	5	23' - 11 17/32"	0.44 CF	1.08 kip	
HSS4X2X1/4	Steel ASTM A500, Grade B, Rectangular and Square	3	12' - 6"	0.20 CF	0.30 kip	
HSS4X2X1/4	Steel ASTM A500, Grade B, Rectangular and Square	5	8' - 11"	0.14 CF	0.34 kip	
HSS4X2X1/4	Steel ASTM A500, Grade B, Rectangular and Square	3	5' - 10 13/16"	0.09 CF	0.14 kip	
HSS4X2X1/4	Steel ASTM A500, Grade B, Rectangular and Square	3	3' - 3 3/16"	0.04 CF	0.07 kip	
HSS4X2X1/4: 19					1.92 kip	
HSS6X6X1/4	Steel ASTM A36	1	19' - 8 13/16"	0.63 CF	0.31 kip	
HSS6X6X1/4	Steel ASTM A36	1	19' - 8 5/8"	0.63 CF	0.31 kip	
HSS6X6X1/4: 2					0.62 kip	
L6X4X3/8	Steel ASTM A36	1	9 9/32"	0.02 CF	0.01 kip	
L6X4X3/8	Steel ASTM A36	10	9"	<varies>	0.09 kip	
L6X4X3/8	Steel ASTM A36	1	8 3/4"	0.02 CF	0.01 kip	
L6X4X3/8	Steel ASTM A36	24	8 17/32"	<varies>	0.20 kip	
L6X4X3/8	Steel ASTM A36	5	8 1/4"	0.01 CF	0.03 kip	
L6X4X3/8	Steel ASTM A36	1	8 1/32"	0.02 CF	0.01 kip	
L6X4X3/8	Steel ASTM A36	41	8"	0.02 CF	0.34 kip	
L6X4X3/8	Steel ASTM A36	1	7 1/4"	0.02 CF	0.01 kip	
L6X4X3/8	Steel ASTM A36	2	7 3/16"	<varies>	0.01 kip	
L6X4X3/8	Steel ASTM A36	1	7 1/8"	0.01 CF	0.01 kip	
L6X4X3/8	Steel ASTM A36	6	6 15/16"	<varies>	0.04 kip	
L6X4X3/8: 93					0.75 kip	

STRUCTURAL FRAMING SCHEDULE

TYPE	STRUCTURAL MATERIAL	COUNT	LENGTH	VOLUME	WEIGHT (Kips)	COMMENTS
W8X18	Steel ASTM A992	2	10' - 8"	0.36 CF	0.36 kip	
W8X18	Steel ASTM A992	1	8' - 11 1/32"	0.29 CF	0.15 kip	
W8X18	Steel ASTM A992	6	8' - 2 3/4"	0.25 CF	0.76 kip	
W8X18	Steel ASTM A992	7	8' - 2 1/2"	0.26 CF	0.89 kip	
W8X18	Steel ASTM A992	4	7' - 1 11/16"	0.22 CF	0.44 kip	
W8X18	Steel ASTM A992	1	4' - 0 1/4"	0.11 CF	0.05 kip	
W8X18	Steel ASTM A992	2	4' - 0 7/32"	0.12 CF	0.12 kip	
W8X18	Steel ASTM A992	6	2' - 5"	0.05 CF	0.14 kip	
W8X18: 29					2.90 kip	
W8X40	Steel ASTM A992	2	64' - 6 1/16"	5.43 CF	5.38 kip	
W8X40: 2					5.38 kip	
W10X30	Steel ASTM A992	1	30' - 9 1/2"	1.88 CF	0.93 kip	
W10X30: 1					0.93 kip	
W12X26	Steel ASTM A992	1	33' - 8 1/16"	1.69 CF	0.84 kip	
W12X26	Steel ASTM A992	1	22' - 7 13/32"	1.13 CF	0.56 kip	
W12X26	Steel ASTM A992	1	17' - 9 13/32"	0.89 CF	0.44 kip	
W12X26	Steel ASTM A992	1	17' - 7 1/2"	0.88 CF	0.44 kip	
W12X26	Steel ASTM A992	1	17' - 5 19/32"	0.87 CF	0.43 kip	
W12X26	Steel ASTM A992	1	15' - 7 25/32"	0.76 CF	0.38 kip	
W12X26	Steel ASTM A992	1	14' - 10"	0.73 CF	0.36 kip	
W12X26	Steel ASTM A992	1	14' - 9 13/32"	0.73 CF	0.36 kip	
W12X26	Steel ASTM A992	1	14' - 7 1/2"	0.74 CF	0.36 kip	
W12X26	Steel ASTM A992	1	12' - 6"	0.59 CF	0.29 kip	
W12X26	Steel ASTM A992	1	12' - 2 1/32"	0.59 CF	0.29 kip	
W12X26	Steel ASTM A992	1	10' - 8"	0.53 CF	0.26 kip	
W12X26	Steel ASTM A992	1	8' - 11"	0.40 CF	0.20 kip	
W12X26	Steel ASTM A992	1	8' - 10 7/8"	0.40 CF	0.20 kip	
W12X26	Steel ASTM A992	1	4' - 10"	0.21 CF	0.11 kip	
W12X26: 15					5.52 kip	
W12X35	Steel ASTM A36	1	67' - 3"	4.82 CF	2.38 kip	
W12X35	Steel ASTM A36	1	66' - 10"	4.79 CF	2.37 kip	
W12X35: 2					4.75 kip	
W12X45	Steel ASTM A992	14	34' - 0 11/32"	<varies>	21.04 kip	
W12X45	Steel ASTM A992	1	15' - 8 1/32"	1.29 CF	0.64 kip	
W12X45	Steel ASTM A992	1	15' - 7 25/32"	1.31 CF	0.65 kip	
W12X45	Steel ASTM A992	1	14' - 6 1/16"	1.23 CF	0.61 kip	
W12X45	Steel ASTM A992	1	12' - 6"	1.01 CF	0.50 kip	
W12X45	Steel ASTM A992	2	9' - 4 3/4"	0.75 CF	0.74 kip	
W12X45	Steel ASTM A992	2	8' - 11 1/32"	0.73 CF	0.73 kip	
W12X45	Steel ASTM A992	2	6' - 8 3/4"	0.52 CF	0.52 kip	
W12X45	Steel ASTM A992	1	5' - 2 25/32"	0.32 CF	0.16 kip	
W12X45	Steel ASTM A992	1	3' - 6 31/32"	0.15 CF	0.07 kip	
W12X45: 26					25.64 kip	
W12X53	Steel ASTM A992	1	24' - 3"	2.50 CF	1.24 kip	
W12X53	Steel ASTM A992	1	20' - 4 1/16"	2.13 CF	1.05 kip	
W12X53	Steel ASTM A992	2	14' - 10"	1.48 CF	1.46 kip	
W12X53	Steel ASTM A992	1	10' - 7 15/32"	0.99 CF	0.49 kip	
W12X53	Steel ASTM A992	2	9' - 5 3/4"	0.91 CF	0.90 kip	
W12X53: 7					5.15 kip	
W12X65	Steel ASTM A992	2	29' - 2 1/4"	<varies>	3.64 kip	
W12X65	Steel ASTM A992	1	28' - 4 3/4"	3.62 CF	1.79 kip	
W12X65	Steel ASTM A992	1	15' - 8 1/4"	1.91 CF	0.95 kip	
W12X65: 4					6.38 kip	

STRUCTURAL FRAMING SCHEDULE

TYPE	STRUCTURAL MATERIAL	COUNT	LENGTH	VOLUME	WEIGHT (Kips)	COMMENTS
W14X74	Steel ASTM A992	3	32' - 3"	<varies>	7.00 kip	
W14X74: 3					7.00 kip	
W18X158	Steel ASTM A992	1	66' - 11 1/16"	21.67 CF	10.73 kip	
W18X158	Steel ASTM A992	1	45' - 6 3/16"	14.47 CF	7.16 kip	
W18X158	Steel ASTM A992	1	40' - 5"	13.01 CF	6.44 kip	
W18X158: 3					24.33 kip	
W24X104	Steel ASTM A992	4	32' - 3"	6.61 CF	13.10 kip	
W24X104	Steel ASTM A992	1	26' - 3 15/32"	5.83 CF	2.89 kip	
W24X104: 5					15.98 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	5	66' - 11 1/16"	0.26 CF	0.65 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	1	51' - 5 1/16"	0.20 CF	0.10 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	2	37' - 8"	0.15 CF	0.14 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	4	32' - 3"	0.13 CF	0.26 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	4	26' - 3 25/32"	0.11 CF	0.21 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	5	20' - 3 7/8"	0.08 CF	0.20 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	1	19' - 4 1/2"	0.08 CF	0.04 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	2	16' - 8 17/32"	0.07 CF	0.07 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	2	15' - 1"	0.06 CF	0.06 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	8	14' - 10 1/32"	<varies>	0.23 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	3	12' - 9 1/16"	0.05 CF	0.08 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	5	10' - 9"	0.05 CF	0.12 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	3	10' - 3 29/32"	0.04 CF	0.06 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	3	8' - 7 1/32"	0.04 CF	0.06 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	5	8' - 0"	0.03 CF	0.08 kip	
ZS8x3.5x.104	Steel Cold Formed (50 ksi Yield)	1	5' - 7 3/8"	0.02 CF	0.01 kip	
ZS8x3.5x.104: 54					2.36 kip	
Grand total: 513					137.57 kip	

STRUCTURAL COLUMN SCHEDULE

TYPE	STRUCTURAL MATERIAL	COUNT	LENGTH	VOLUME	Weight (Kips)	COMMENTS
C8X11.5	Steel ASTM A36	2	9' - 4"	0.26 CF	0.26 kip	
C8X11.5: 2					0.26 kip	
HSS4X2X1/4	Steel ASTM A500, Grade B, Rectangular and Square	2	7' - 2"	0.13 CF	0.13 kip	
HSS4X2X1/4: 2					0.13 kip	
HSS4X4X1/4	Steel ASTM A500, Grade B, Rectangular and Square	1	5' - 5 1/4"	0.13 CF	0.07 kip	
HSS4X4X1/4	Steel ASTM A500, Grade B, Rectangular and Square	14	3' - 0"	0.07 CF	0.51 kip	
HSS4X4X1/4	Steel ASTM A500, Grade B, Rectangular and Square	14	1' - 3"	0.03 CF	0.21 kip	
HSS4X4X1/4: 29					0.78 kip	
HSS6X6X1/4	Steel ASTM A500, Grade B, Rectangular and Square	2	17' - 4 11/32"	<varies>	0.59 kip	
HSS6X6X1/4	Steel ASTM A500, Grade B, Rectangular and Square	4	16' - 3 27/32"	0.61 CF	1.21 kip	
HSS6X6X1/4	Steel ASTM A500, Grade B, Rectangular and Square	7	13' - 5 7/32"	0.50 CF	1.74 kip	
HSS6X6X1/4	Steel ASTM A500, Grade B, Rectangular and Square	1	12' - 9 7/8"	0.48 CF	0.24 kip	
HSS6X6X1/4	Steel ASTM A500, Grade B, Rectangular and Square	1	12' - 9 3/4"	0.48 CF	0.24 kip	
HSS6X6X1/4	Steel ASTM A500, Grade B, Rectangular and Square	2	12' - 4 1/4"	0.46 CF	0.46 kip	
HSS6X6X1/4	Steel ASTM A500, Grade B, Rectangular and Square	1	12' - 0"	0.45 CF	0.22 kip	
HSS6X6X1/4: 18					4.68 kip	
HSS8X8X1/2	Steel ASTM A500, Grade B, Rectangular and Square	1	12' - 0"	1.17 CF	0.58 kip	
HSS8X8X1/2	Steel ASTM A500, Grade B, Rectangular and Square	1	11 13/16"	0.10 CF	0.05 kip	
HSS8X8X1/2	Steel ASTM A500, Grade B, Rectangular and Square	1	10"	0.08 CF	0.04 kip	
HSS8X8X1/2: 3					0.67 kip	
W14X99	Steel ASTM A992	3	41' - 2 3/4"	8.28 CF	12.29 kip	
W14X99	Steel ASTM A992	1	21' - 7 15/32"	4.34 CF	2.15 kip	
W14X99	Steel ASTM A992	1	21' - 7 13/32"	4.34 CF	2.15 kip	
W14X99	Steel ASTM A992	2	20' - 10 13/16"	4.20 CF	4.15 kip	
W14X99	Steel ASTM A992	1	20' - 9 13/16"	4.18 CF	2.07 kip	
W14X99: 8					22.81 kip	
Grand total: 62					29.32 kip	

NOTES:

1. FOR GENERAL NOTES SEE S-001.

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FILTER ANNEX BUILDING STRUCTURE

DRAWING DESCRIPTION:

STRUCTURAL FRAMING SCHEDULE AND COLUMN SCHEDULE

DRAWING INFORMATION:

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